



# Report on Texas Bridges



as of September 2012



**Report on**

**Texas Bridges**

**as of September 2012**

**Prepared by the Bridge Division**  
**Texas Department of Transportation**

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# Contents

|   |    |
|---|----|
| <b>Executive Summary</b> .....                                      | 1  |
| <b>Chapter 1 – Overview</b> .....                                   | 7  |
| Introduction .....  | 7  |
| Purpose .....   | 9  |
| Data Sources .....  | 9  |
| <b>Chapter 2 – Characteristics of Texas Bridges</b> .....           | 11 |
| Terms .....   | 11 |
| On- and Off-system Bridges .....                                    | 11 |
| Age .....   | 12 |
| <b>Chapter 3 – Condition of Texas Bridges</b> .....                 | 15 |
| Terms .....   | 15 |
| Condition of Bridges .....  | 16 |
| Sufficient Bridges (Good or Better) .....                           | 17 |
| Structurally Deficient Bridges .....                                | 17 |
| Functionally Obsolete Bridges .....                                 | 17 |
| Sub-Standard for Load Only Bridges .....                            | 17 |
| Bridge Counts .....   | 17 |
| Change in Condition of Bridges .....                                | 17 |
| Load-posted and Closed Bridges .....                                | 19 |
| Land-locking Bridges .....  | 20 |
| <b>Chapter 4 – Funding</b> .....                                    | 23 |
| MAP-21 .....  | 23 |
| Unified Transportation Program .....                                | 23 |
| Terms .....   | 23 |
| HBP Funding .....   | 24 |
| On-system Bridge Projects Authorized to Be Awarded Contracts .....  | 24 |
| Off-system Bridge Projects Authorized to Be Awarded Contracts ..... | 25 |
| PWP/EMP Program .....   | 24 |
| Other Funding Resources for Off-system Bridge Work .....            | 25 |
| <b>Chapter 5 – On-System Contract Awards</b> .....                  | 27 |
| Contracts Awarded in FY 2012 for On-System Bridge Projects .....    | 27 |
| HBP Projects .....  | 27 |
| Non-HBP Projects .....  | 27 |
| Condition of Bridges Replaced or Rehabilitated .....                | 28 |
| Funding Levels .....  | 28 |
| On-system Bridge Maintenance Projects Awarded in FY 2010 .....      | 29 |
| Summary of FY 2010 Funds Spent on On-system Bridges .....           | 29 |

|  |    |
|--|----|
| <b>Chapter 6 – Off-System Contract Awards</b> .....  | 31 |
| Contracts Awarded in FY 2012 for Off-System Bridge Projects .....                            | 31 |
| HBP Projects.....  | 31 |
| Non-HBP Projects.....  | 31 |
| Condition of Bridges Replaced or Rehabilitated .....   | 32 |
| Funding Levels.....  | 32 |
| Off-System Bridge Maintenance .....  | 33 |
| Summary of FY 2010 Funds Spent on Off-System Bridges.....                                    | 33 |
| <br>   |    |
| <b>Chapter 7 – Meeting the Challenges</b> .....  | 35 |
| Goals .....  | 35 |
| Challenges for Eliminating All Structurally Deficient On-system Bridges.....                 | 35 |
| Bridge Resources Needed .....  | 35 |
| The Bigger Picture .....   | 36 |
| Tough Decisions .....  | 37 |
| Staying on Course.....   | 37 |
| <br>   |    |
| <b>Appendices</b> .....  | 39 |
| A. Map of Texas Counties and TxDOT Districts and Regions .....                               | 39 |
| B. Condition of On-System Bridges by TxDOT District and County as<br>of September 2010 ..... | 41 |
| C. Condition of Off-System Bridges by TxDOT District and County as<br>of September 2010..... | 49 |

## Figures

|              |   |    |
|--------------|---|----|
| Figure ES-1. | Condition of Texas Bridges by Count in September 2012 .....                         | 2  |
| Figure ES-2. | Change in Condition of Non-sufficient Bridges from FY 2010 through<br>FY 2012 ..... | 3  |
| Figure 2-1.  | Count of On- and Off-system Texas Bridges as of September 2012.....                 | 11 |
| Figure 2-2.  | Age of On- and Off-system Texas Bridges in FY 2012 .....                            | 13 |
| Figure 2-3.  | On-System Timber Bridges by Year.....   | 14 |
| Figure 3-1.  | Condition of Texas Bridges by Count in September 2012 .....                         | 16 |
| Figure 3-2   | Change in Condition of Non-sufficient Bridges from FY 2006 through<br>FY 2012 ..... | 18 |
| Figure 5-1.  | Distribution of Funds Spent on On-system Bridges in FY 2012 .....                   | 29 |
| Figure 6-1.  | Distribution of Funds Spent on Off-system Bridges in FY 2012 .....                  | 33 |
| Figure A-1.  | Texas Counties with TxDOT Districts and Regions .....                               | 39 |

## Tables

|             |  |    |
|-------------|--|----|
| Table ES-1. | Change in Condition of Non-sufficient Bridges from FY 2010 to FY 2012 .....            | 3  |
| Table 2-1.  | Count of On- and Off-system Bridges .....  | 12 |
| Table 2-2.  | Age of Bridges in FY 2012.....   | 13 |
| Table 2-3.  | Change in Age of Bridges from September 2010 to September 2012.....                    | 14 |
| Table 3-1.  | Condition of Texas Bridges by Count in September 2012 .....                            | 16 |
| Table 3-2.  | Change in Condition of Non-Sufficient Bridges from FY 2010 through FY 2012.....        | 18 |
| Table 3-3.  | Load Posted and Closed Bridges as of September 2012.....                               | 19 |
| Table 3-4.  | Land-Locking Bridges as of September 2012 .....  | 21 |
| Table 5-1.  | On-System Bridges Awarded in HBP Projects, by District.....                            | 27 |
| Table 5-2.  | On-System Bridges Awarded in Non-HBP Projects, by District .....                       | 27 |
| Table 5-3.  | On-System Bridges Replaced or Rehabilitated in FY 2012 .....                           | 28 |
| Table 5-4.  | On-System Bridges in Bridge Projects Awarded in FY 2012 .....                          | 28 |
| Table 6-1.  | Off-System Bridges Awarded in HBP Projects, by District.....                           | 31 |
| Table 6-2.  | Off-System Bridges Awarded in Non-HBP Projects, by District.....                       | 31 |
| Table 6-3.  | Off-System Bridges Replaced or Rehabilitated in FY 2012.....                           | 32 |
| Table 6-4.  | Off-System Bridges in Projects Awarded in FY 2012.....                                 | 32 |
| Table B-1.  | Condition of On-System Bridges by TxDOT District and County as of September 2012.....  | 41 |
| Table C-1.  | Condition of Off-System Bridges by TxDOT District and County as of September 2012..... | 49 |

## Report on Texas Bridges as of September 2012

### Executive Summary

This report describes Texas publicly owned vehicular bridges and their condition as of September 2012 based on information in the Bridge Inspection Database, the Unified Transportation Program (UTP) planning document, and the Design and Construction Information System (DCIS). It describes bridges categorized by location either on or off the state highway system. It also describes the condition of Texas bridges in terms of sufficiency: sufficient bridges (bridges in good or better condition), structurally deficient bridges, functionally obsolete bridges, and sub-standard-for-load-only bridges.

**Goals.** This report tracks the progress toward TxDOT's goals to:

- Make 80% of Texas bridges in good or better condition by end of FY 2011; and
- Eliminate structurally deficient on-system bridges.

This and previous reports show the following progress toward these two goals:

#### **Goal – Make 80% of Texas Bridges in Good or Better Condition by End of FY 2011**

|  |
|--|
| FY 2001 – 70% of bridges in good or better condition<br>FY 2002 – 71% of bridges in good or better condition<br>FY 2003 – 75% of bridges in good or better condition<br>FY 2004 – 76% of bridges in good or better condition<br>FY 2006 – 77% of bridges in good or better condition<br>FY 2008 – 78% of bridges in good or better condition<br>FY 2010 – 80% of bridges in good or better condition<br>FY 2012 – 81% of bridges in good or better condition |
|--|

#### **Goal – Eliminate Structurally Deficient On-System Bridges**

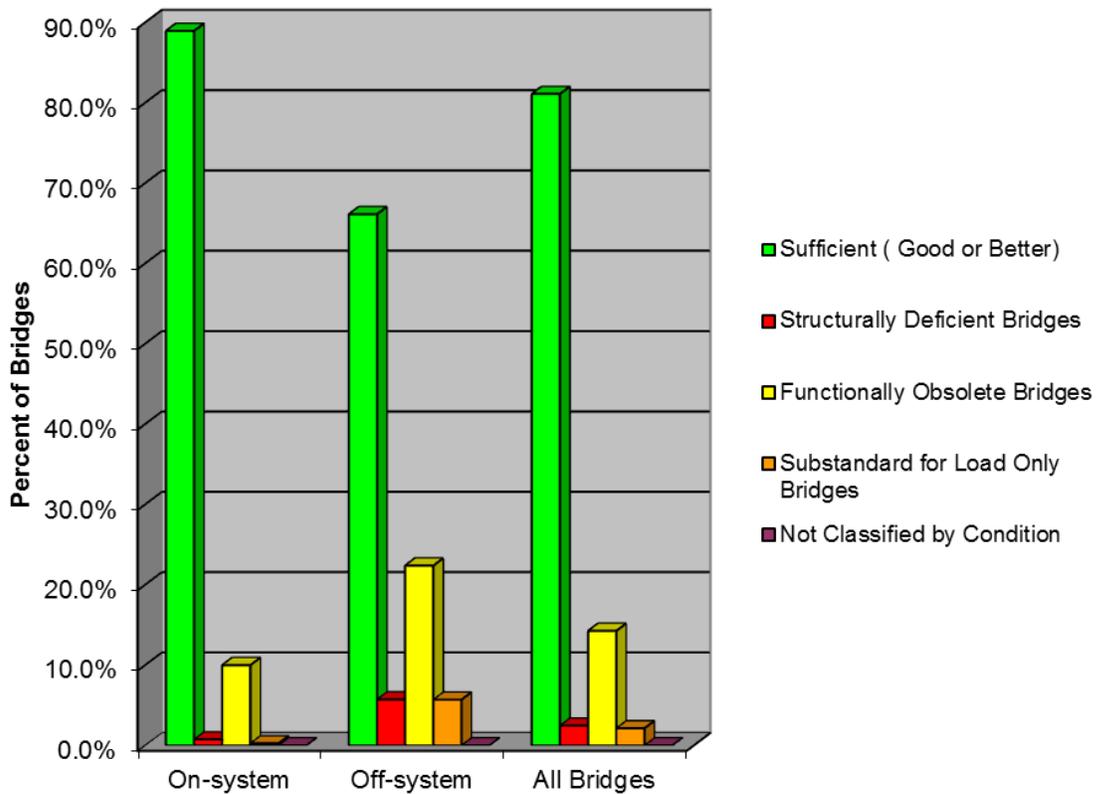
|  |
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| FY 2001 – 763 structurally deficient, on system bridges<br>FY 2002 – 693 structurally deficient, on system bridges<br>FY 2003 – 645 structurally deficient, on system bridges<br>FY 2004 – 565 structurally deficient, on system bridges<br>FY 2006 – 483 structurally deficient, on system bridges<br>FY 2008 – 354 structurally deficient, on system bridges<br>FY 2010 – 305 structurally deficient, on system bridges<br>FY 2012 – 261 structurally deficient, on system bridges |
|--|

This report also illustrates TxDOT strategies to plan, build, use, maintain, and manage key state resources to ensure that Texas bridges meet the goals outlined in the TxDOT Strategic Plan 2013-2017:

- Maintain a safe system
- Address congestion
- Connect Texas communities
- Best in class state agency

**Condition of Texas Bridges.** In September, 2012, Texas had 52,227 bridges. Their condition at that time is shown by the following figure (same as Figure 3-1).

**Condition of Texas Bridges by Count in September 2012 (52,227 Total)**



**Figure ES-1.**

From FY 2010 through FY 2012, the number of sufficient (good or better) bridges increased by 961. This increase was made up of 669 more on-system bridges and 292 additional sufficient off-system bridges. As the inventory of bridges in Texas grows, the percentage of sufficient

bridges has increased steadily—from 70% in September 2001 to 71% in September 2002, to 75% in September 2003, to 76% in September 2004, to 77% in September 2006, to 78% in September 2008, to over 80% in September 2010 and to over 81% in 2012.

Of the non-sufficient bridges in Texas, the period from FY 2010 through FY 2012 produced a net improvement of 274 bridges, as shown by the negative numbers in the following table. This improvement encompassed 88 more on-system and 186 more off-system bridges that changed from non-sufficient to sufficient. (Same as Table 3-2.)

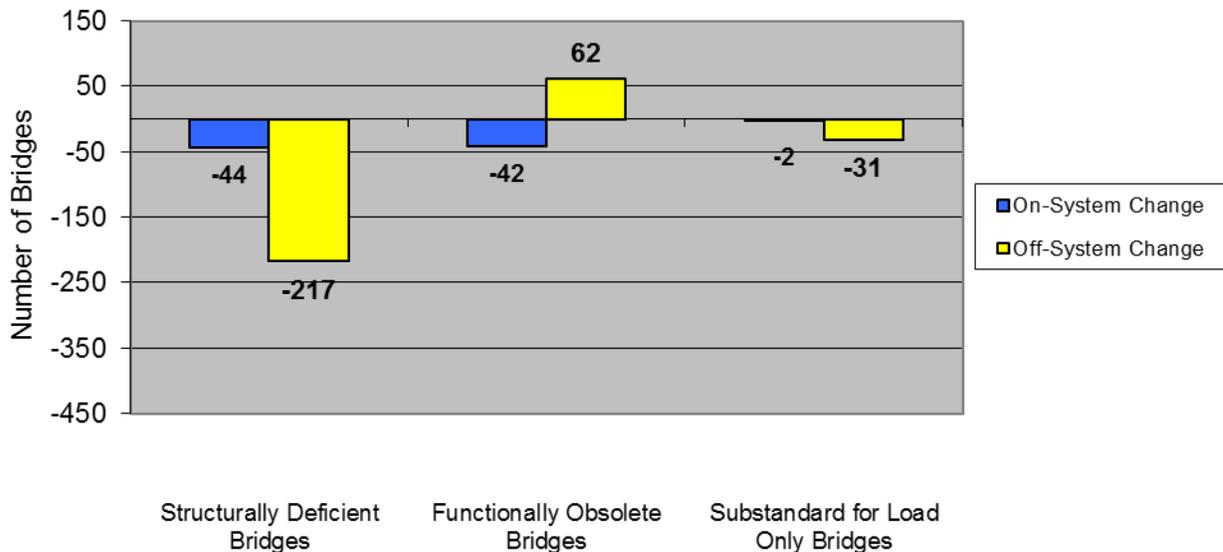
**Change in Condition of Non-Sufficient Bridges from FY 2010-2012**

| Condition                  | Change On-System | Change Off-System | Total Change |
|----------------------------|------------------|-------------------|--------------|
| Structurally Deficient     | -44              | -217              | -261         |
| Functionally Obsolete      | -42              | 62                | +20          |
| Sub-standard for load only | -2               | -31               | -33          |
| Total Change               | -88              | -186              | -274         |

**Table ES-1.**

Change in the condition of non-sufficient Texas bridges from FY 2010 through FY 2012 is also shown in the following figure (same as Figure 3-2).

**Change in Condition of Non-Sufficient Bridges from FY 2010-2012**



**Figure ES-2.**

**Funding.** The following programs made funds available or facilitated upgrades of non-sufficient bridges:

- Highway Bridge Program (HBP)— MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141), was signed into law by President Obama on July 6, 2012. Under it, the Federal Highway Bridge Program was consolidated into another core formula, the National Highway Performance Program (NHPP). As of the writing of this report, TxDOT will continue to administer the HBP as a state program, following the same rules and conditions as previously set out. Initial funding participation requirements for both on- and off-system bridges were 80% federal and 20% local; however, in 1995 TxDOT initiated a change in participation requirements for off-system bridges to pay half of the local government's share (80% federal, 10% state, 10% local).
- State Infrastructure Bank (SIB)—Effective September 1997, this revolving account in the State Highway Fund allows TxDOT to award loans to local governments to support eligible transportation projects. The overall goal of the SIB program is to provide innovative financing methods that will add to the list of options available to communities to assist them in meeting their infrastructure needs. The SIB program allows borrowers to access capital funds at or lower than current market interest rates. The Texas Transportation Commission, TxDOT's governing body, has approved 98 loans totaling more than \$483 million from the SIB program. The loans have helped leverage more than \$3.6 billion in transportation projects in Texas.
- Economically Disadvantaged Counties (EDC) Program—Effective January 1998, this program allows TxDOT to adjust a county's matching funds requirements after evaluating the local government's ability to meet the requirement. TxDOT also allows a county participating in the EDC program to use its adjusted participation amount in lieu of all or part of its 10% cost participation in the Participation-Waived Project/Equivalent-Match Project (PWP/EMP) program.
- PWP/EMP Program—Effective August 2000, this program revised local participation requirements to allow 100% federal/state funding of a TxDOT-programmed participation-waived project (PWP) in cases where the local government agrees to perform safety improvement work on other equivalent-match-projects (EMP) with a dollar amount at least equal to their normal 10% project match. State design standards apply to the PWPs while the EMP design standards are determined by the local governments based on local needs and standards.
- Simplified local government participation—Effective August 2000, TxDOT provided that when the local government elects to participate in the cost of a TxDOT-programmed bridge, instead of being responsible for 10% of actual costs, the local government is now responsible for 10% of the estimated project cost at the time the agreement with TxDOT is signed. The local government no longer participates in subsequent overruns in costs of program-eligible project items unless it lets and manages the project.

**Contracting and Funds Spent.** During FY 2012, Texas contracted projects to address 43 structurally deficient bridges and 36 functionally obsolete on-system bridges. During the same time period, Texas contracted projects to address 110 structurally deficient and 11 functionally obsolete off-system bridges. This resulted in a total of 200 deficient or obsolete bridges addressed during FY 2012.

TxDOT spent a total of \$760.9 million in FY 2012 for on-system bridge maintenance, bridge replacement and rehabilitation, and construction of new location bridges. These funds were distributed as follows:

- \$331.1 million (43.8%) for on-system new location
- \$382.9 million (50.3%) for on-system replacement/rehabilitation
- \$44.9 million (5.9%) for on-system maintenance

TxDOT spent a total of \$53 million in FY 2012 for off-system bridge replacement and rehabilitation, and construction of new location bridges. These funds were distributed as follows:

- \$45.5 million (85.8%) for off-system replacement/rehabilitation
- \$7.5 million (14.2%) for new location

### **Challenges and Solutions.**

Texas has a bright transportation future and TxDOT will continue to work with communities and local, state and federal leaders to ensure that our state leads the nation in the safety and quality of our transportation infrastructure.

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## Chapter 1 – Overview

**Introduction.** The Texas Department of Transportation is on the road to becoming a modern, best in class agency. We have changed the way we do business in order to keep up with our contemporary, mobile society. We have developed new, innovative ideas for meeting the mobility needs of the citizens of Texas. One constant on this road, however, is our dedication to safety – safety for each and every citizen traveling on Texas highways and bridges.

Texas has long enjoyed a reputation for having a premier system of safe highways and bridges. This system has allowed Texans to experience economic prosperity and a quality of life unique to our state. Even though today we face mobility challenges, deteriorating infrastructure and funding shortages, the Texas Department of Transportation is ready to take on these challenges. We are committed to developing innovations in funding and infrastructure development and exploring new and more efficient technologies to make sure that Texas bridges are safe.

The Texas Transportation Commission has developed a plan to meet these challenges. On June 28, 2012, the Commission adopted the [TxDOT 2013-2017 Strategic Plan](#). It outlines the agency’s philosophy on the mission, values, goals, objectives, budgetary performance measures, strategies and key planning contextual information that will direct the department over the next five years.

### Mission

Work with others to provide safe and reliable transportation solutions for Texas.

### Values

- Trust
- Integrity
- Responsibility
- Excellence
- Service

### Goals

- Maintain a safe system
- Address congestion
- Connect Texas communities
- Best in class state agency

Also, in August 2001, Texas Transportation Commissioner John W. Johnson established a new measure to increase safety for the traveling public. This new measure required that within ten years, or by September 2011, at least 80% of the bridges in Texas be in good or better condition.<sup>1</sup>

As part of the September 2001 evaluation of Texas bridges, TxDOT adopted an additional goal to accelerate the upgrade of all structurally deficient on-system bridges in an effort to eliminate more quickly structurally deficient on-system bridges.

The TxDOT Bridge Division tracks progress toward these goals in a report on the condition of publicly owned vehicular bridges:

- *Report on Texas Bridges as of September 2001*—Baseline information showing the state of the bridges at the end of FY 2001.
- *Report on Texas Bridges as of September 2002*—Information showing the state of the bridges at the end of FY 2002.
- *Report on Texas Bridges as of September 2003*—Information showing the state of the bridges at the end of FY 2003.
- *Report on Texas Bridges as of September 2004*—Information showing the state of the bridges at the end of FY 2004. At this time it was determined to publish the report biennially.
- *Report on Texas Bridges as of September 2006*—Information showing the state of the bridges for the period FY 2005 and FY 2006.
- *Report on Texas Bridges as of September 2008*—Information showing the state of the bridges for the period FY 2007 and FY 2008.
- *Report on Texas Bridges as of September 2010* – Information showing the state of the bridges for period FY 2009 and FY 2010.
- *Report on Texas Bridges as of September 2012* - This report of information showing the state of the bridges for the period FY 2011 and FY 2012.

These reports show the following progress toward these two goals:

Goal – 80% of bridges in Texas in good or better condition:

FY 2001 – 70% of bridges in good or better condition  
 FY 2002 – 71% of bridges in good or better condition  
 FY 2003 – 75% of bridges in good or better condition  
 FY 2004 – 76% of bridges in good or better condition  
 FY 2006 – 77% of bridges in good or better condition  
 FY 2008 – 78% of bridges in good or better condition  
 FY 2010 – 80% of bridges in good or better condition  
 FY 2012 – 81% of bridges in good or better condition

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<sup>1</sup> Texas Transportation Commission’s Transportation Working Group, “Texas Transportation Partnerships: Connecting You to the World,” August 2001.

Goal – accelerate the upgrade and reduce the number of structurally deficient on-system bridges:

FY 2001 – 763 structurally deficient, on system bridges  
FY 2002 – 693 structurally deficient, on system bridges  
FY 2003 – 645 structurally deficient, on system bridges  
FY 2004 – 565 structurally deficient, on system bridges  
FY 2006 – 483 structurally deficient, on system bridges  
FY 2008 – 354 structurally deficient, on system bridges  
FY 2010 – 305 structurally deficient, on system bridges  
FY 2012 – 261 structurally deficient, on system bridges

As this shows, TxDOT met its goal – one year ahead of time – to have 80% of bridges in good or better condition. In addition, we are consistently eliminating on-system structurally deficient bridges from our inventory.

**Purpose.** This report describes the condition of all publicly owned vehicular bridges in Texas at the end of FY 2012. It provides the following information:

- Chapter 2—Characteristics of Texas bridges, categorized by location on or off the state highway system and by age.
- Chapter 3—Condition of the bridges and changes from the preceding report.
- Chapter 4—Funding background and definitions.
- Chapters 5 and 6—Status of funding and letting of bridge projects at the end of FY 2012.
- Chapter 7—Concerns for the future of Texas bridges based on their attributes and conditions. Summaries of progress made toward TxDOT’s bridge goals during the preceding reporting period and tough decisions to be made. Our plan for staying on course.

**Data Sources.** The Texas Transportation Commission and TxDOT use the Unified Transportation Program (UTP) as a ten-year planning guide for transportation project development and construction. The UTP identifies Texas projects scheduled to be let for construction bids and is typically updated and re-issued yearly. It provides the source of data for funding information in this report. The [TxDOT 2013 UTP](#) is available online.

TxDOT maintains its inspection information on each publicly owned vehicular bridge in the electronic Bridge Inspection Database. This database is a repository of information on the characteristics of the bridges and their conditions, and it provides the source of data for descriptions of bridges in this report. The database identifies each bridge by its National Bridge Inventory (NBI) number and is updated continually based on biannual safety inspections.

TxDOT uses an automated information system—the Design and Construction Information System (DCIS)—for planning, programming, and developing projects. DCIS tracks information by work descriptions, funding requirements, and dates for proposed activities. DCIS provides the source of information on letting for construction bids of the projects described in this report.

These resources provide a wealth of information about Texas bridges. In addition, TxDOT continually evaluates bridge information needs and is currently developing new ways to collect and retrieve data.

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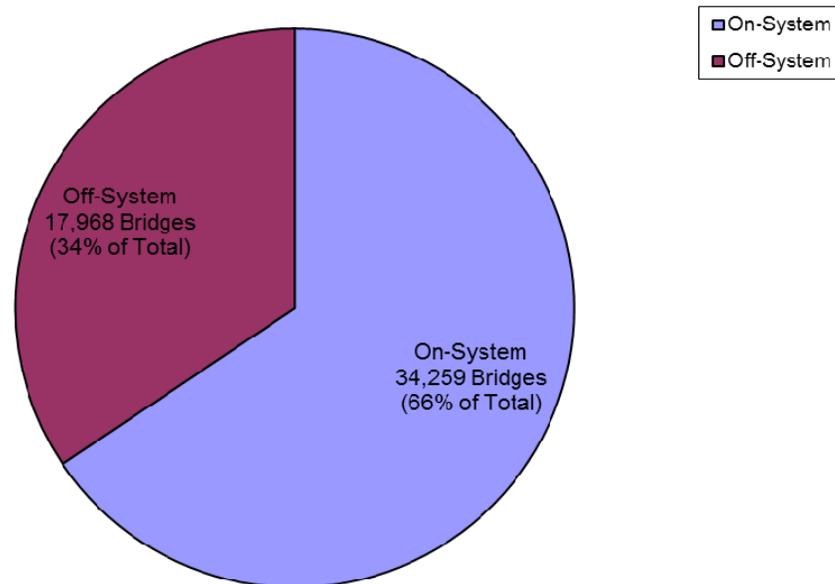
## Chapter 2 – Characteristics of Texas Bridges

**Terms.** Distinctive characteristics of publicly owned vehicular bridges include the following:

- *On-system or off-system:* On-system bridges are located on the designated state highway system, are maintained by TxDOT, and are typically funded with a combination of federal and state or state-only funds. Off-system bridges are not part of the designated state highway system and are under the direct jurisdiction of the local government such as a county, city, other political subdivision of the state, or special district with authority to finance a highway improvement project. This report classifies bridges by their location as either on- or off-system.
- *Age:* This report classifies bridges by age according to significant historic changes in design criteria governing widths and live loads. Live loads are the moving weights placed on a bridge, not including the weight of the structure itself. In the few cases where accumulated data for a structure does not identify age, this report categorizes the age as “Not Classified.”

**On- and Off-system Bridges.** Texas has 52,227 bridges in September 2012, the data timeframe used for of the writing of this report. This constitutes approximately 9% of the nation’s entire inventory of bridges. The state with the second highest number of bridges is Ohio, with approximately 30,000 bridges. The following figure shows the number of on- and off-system bridges in Texas.

**Count of On- and Off-System Texas Bridges as of September 2012 (52,227 Total)**



**Figure 2-1.**

In September 2012, Texas had 34,259 on-system bridges and 17,968 off-system bridges. This constitutes 611 more bridges than in September 2010. As shown in the following table, most of the bridges added during FY 2011 and FY 2012—580 of them—are on-system bridges.

### Count of On- and Off-System Bridges

|                       | On-system | Off-system | Total         |
|-----------------------|-----------|------------|---------------|
| Bridges in Sept. 2010 | 33,679    | 17,878     | <b>51,557</b> |
| Bridges in Sept. 2012 | 34,259    | 17,968     | <b>52,227</b> |
| Difference            | +580      | +90        | <b>+670</b>   |

Table 2-1.

**Age.** The correlation between the age of bridges and their need for special maintenance predicts the need for resources to support bridge replacement and rehabilitation. In addition, on-system Texas bridges built after 1900 can be classified by significant changes in the design criteria that governed their construction:

- Built before 1950—Bridges generally designed for less than the current state legal load.
- Built between 1950 and 1970—Bridges generally required to accommodate the minimum design load or higher recommended by the American Association of State Highway and Transportation Officials, but may be narrower than their approach roadways. A number of these bridges are too narrow to meet current requirements. (Required bridge load capacity is described in detail in TxDOT's [Bridge Inspection Manual](#).)
- Built after 1970—Bridges generally required to accommodate the minimum design load or higher recommended by the American Association of State Highway and Transportation Officials, and must be at least as wide as their approach roadways.

Between 1950 and 1970, many new-location on-system bridges were built as the interstate system developed and the state highway system expanded. The number of on-system bridges built during this time was more than triple the number of off-system bridges built.

However, since 1970 the number of off-system bridges has increased at a much faster rate. This is because additional new off-system roads and bridges are being built as many of the metropolitan and urban areas of Texas experience exponential growth.

The following table and figure show bridges by age groupings.

**Age of Bridges in FY 2012**

| Year Built        | On-system Bridges |               | Off-system Bridges |               | All Bridges   |               |
|-------------------|-------------------|---------------|--------------------|---------------|---------------|---------------|
|                   | Number            | Percent       | Number             | Percent       | Number        | Percent       |
| Built before 1950 | 6,474             | 18.9%         | 1,933              | 10.8%         | 8,407         | 16.1%         |
| Built 1950 - 1970 | 13,055            | 38.1%         | 3,015              | 16.8%         | 16,070        | 30.8%         |
| Built after 1970  | 14,730            | 43.0%         | 13,020             | 72.5%         | 27,750        | 53.1%         |
| Not classified    | 0                 | 0.0%          | 0                  | 0.0%          | 0             | 0.0%          |
| <b>Total</b>      | <b>34,259</b>     | <b>100.0%</b> | <b>17,968</b>      | <b>100.0%</b> | <b>52,227</b> | <b>100.0%</b> |

Table 2-2.

**Age of On- and Off-System Texas Bridges in FY 2012 (52,227 Total)**

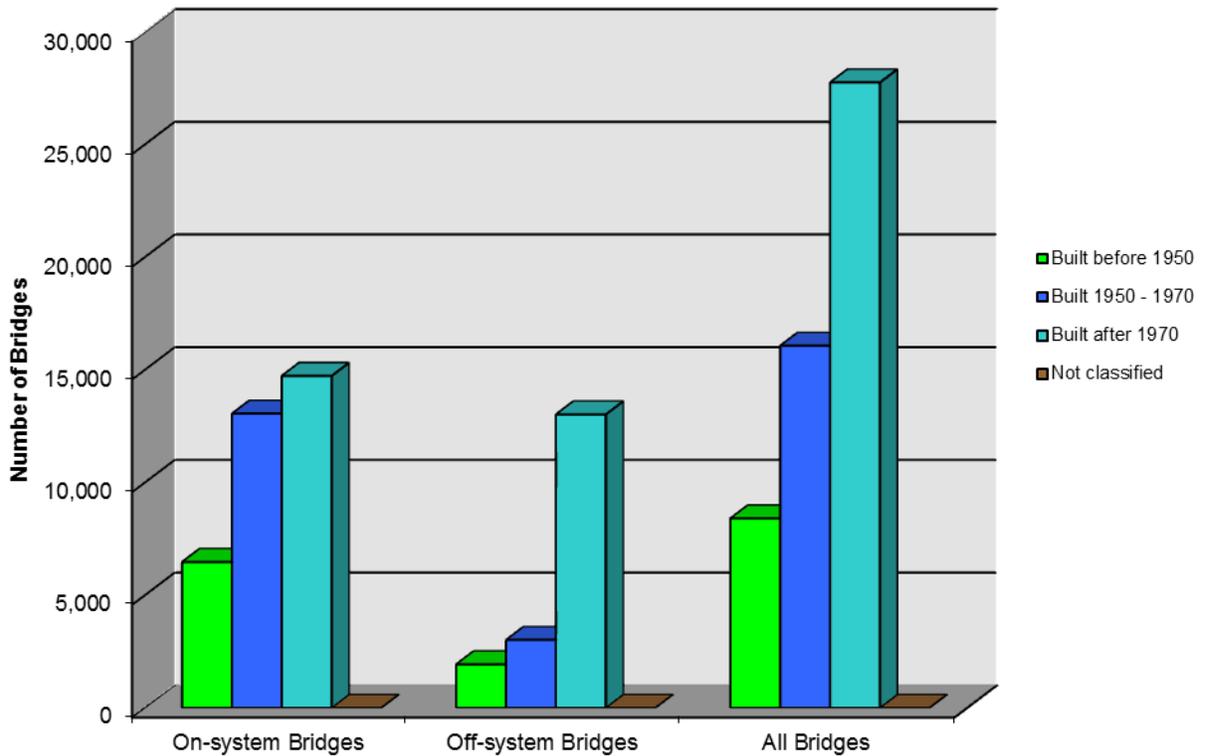


Figure 2-2.

The following table shows the change in age of Texas bridges from FY 2010 to FY 2012.

**Change in Age of Bridges from September 2010 to September 2012**

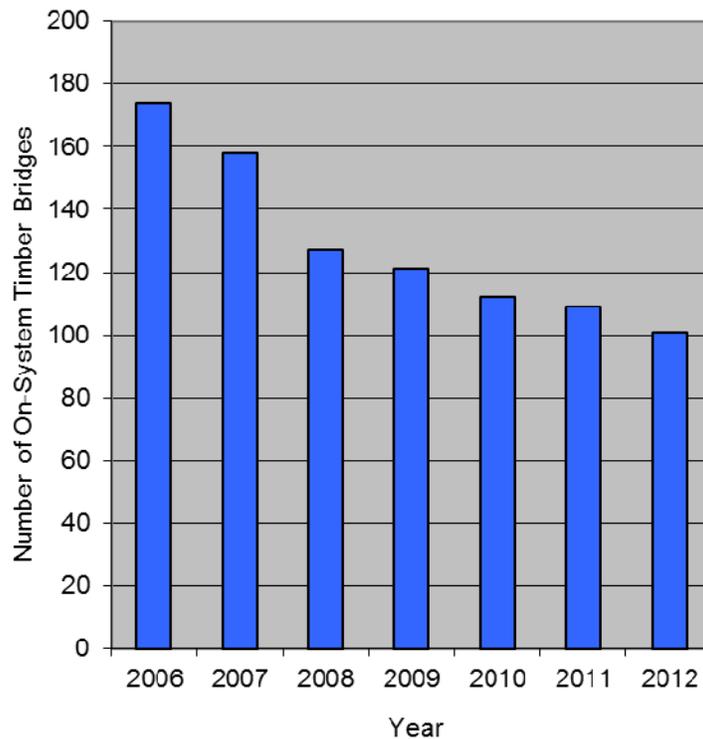
| Age                       | As of Sept. 2010 | As of Sept. 2012 | Change |
|---------------------------|------------------|------------------|--------|
| <b>On-system Bridges</b>  |                  |                  |        |
| ▪ Built before 1950       | 6,529            | 6,474            | -55    |
| ▪ Built 1950-1970         | 13,229           | 13,055           | -174   |
| ▪ Built after 1970        | 13,905           | 14,730           | +825   |
| <b>Off-system Bridges</b> |                  |                  |        |
| ▪ Built before 1950       | 2,067            | 1,933            | -134   |
| ▪ Built 1950-1970         | 3,181            | 3,015            | -166   |
| ▪ Built after 1970        | 12,628           | 13,020           | +392   |

**Table 2-3.**

As seen in the table above, older bridges are being replaced with new structures. This is evidenced by the fact that as of FY 2012, more than 53% of all Texas bridges were built after 1970.

Timber is not as durable or as strong under certain circumstances as other bridge materials. As a result, TxDOT has not built on-system timber bridges for more than 50 years and many on-system timber bridges are reaching the end of their service life. For these reasons, TxDOT targets on-system timber bridges for replacement by bridges with more durable materials, as seen in the following chart.

**On-System Timber Bridges by Year**



**Figure 2-3.**

### Chapter 3 – Condition of Texas Bridges

**Terms.** This report characterizes the condition of bridges as follows:

- *Sufficient structure (good or better):* A sufficient structure meets current federal and Texas requirements. It is not structurally deficient, functionally obsolete, or sub-standard for load only. Desirable change in sufficient structures from year to year is reflected by positive numbers, showing an increase in sufficient structures.
- *Non-sufficient structure:* A non-sufficient structure is structurally deficient, functionally obsolete, or sub-standard for load only. Desirable change in non-sufficient structures from year to year is reflected by negative numbers, showing a decrease in non-sufficient structures.
- *Structurally deficient structure:* A bridge is classified by the Federal Highway Administration (FHWA) as structurally deficient if it meets any of the following criteria:
  - It has an extreme restriction on its load-carrying capacity.
  - It has deterioration severe enough to reduce its load-carrying capacity beneath its original as-built capacity.
  - It is closed.
  - It is frequently over-topped during flooding, creating severe traffic delays.
- *Functionally obsolete structure:* A bridge is classified by the FHWA as functionally obsolete if it fails to meet its design criteria in any one of the following areas:
  - Deck geometry
  - Load-carrying capacity
  - Vertical or horizontal clearances
  - Approach roadway alignment

In this report, structures that are both functionally obsolete and structurally deficient are counted only as structurally deficient.
- *Sub-standard for load only structure:* A bridge is considered sub-standard for load only if it is not classified as structurally deficient or functionally obsolete, but has a load capacity less than the maximum load permitted by state law. It has not deteriorated or has not deteriorated severely enough to reduce its load capacity beneath its original as-built capacity, but its original as-built capacity was not designed to carry current legal loads. A sub-standard for load only structure is load-posted or recommended for load posting.
- *Load-posted bridge:* A bridge that is load-posted has a safe load capacity less than the state legal load, and its load capacity is communicated by signs at the bridge site. (Note: Certain vehicles, identified in Chapter 622 of the Texas Transportation Code, that exceed posted load capacity can legally use load-posted bridges.)
- *Land-locking bridges:* This report classifies a bridge as land-locking if it restricts traffic into an area because of load limitations or closures. These bridges are load-posted or closed.

**Condition of Bridges.** The following table and figure show the condition of Texas bridges as of September 2012.

**Condition of Texas Bridges by Count in September 2012 (52,227 Total)**

| Condition                   | On System     |               | Off System    |               | All Bridges   |               |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sufficient (Good or Better) | 30,474        | 89.0%         | 11,885        | 66.2%         | 42,359        | 81.1%         |
| Structurally Deficient      | 261           | 0.8%          | 1,031         | 5.7%          | 1,292         | 2.5%          |
| Functionally Obsolete       | 3,429         | 10.0%         | 4,024         | 22.4%         | 7,453         | 14.3%         |
| Substandard for Load Only   | 92            | 0.3%          | 1,026         | 5.7%          | 1,118         | 2.1%          |
| Not Classified by Condition | 3             | 0.0%          | 2             | 0.0%          | 5             | 0.0%          |
| <b>Total</b>                | <b>34,259</b> | <b>100.0%</b> | <b>17,968</b> | <b>100.0%</b> | <b>52,227</b> | <b>100.0%</b> |

Table 3-1.

**Condition of Texas Bridges by Count in September 2012 (52,227 Total)**

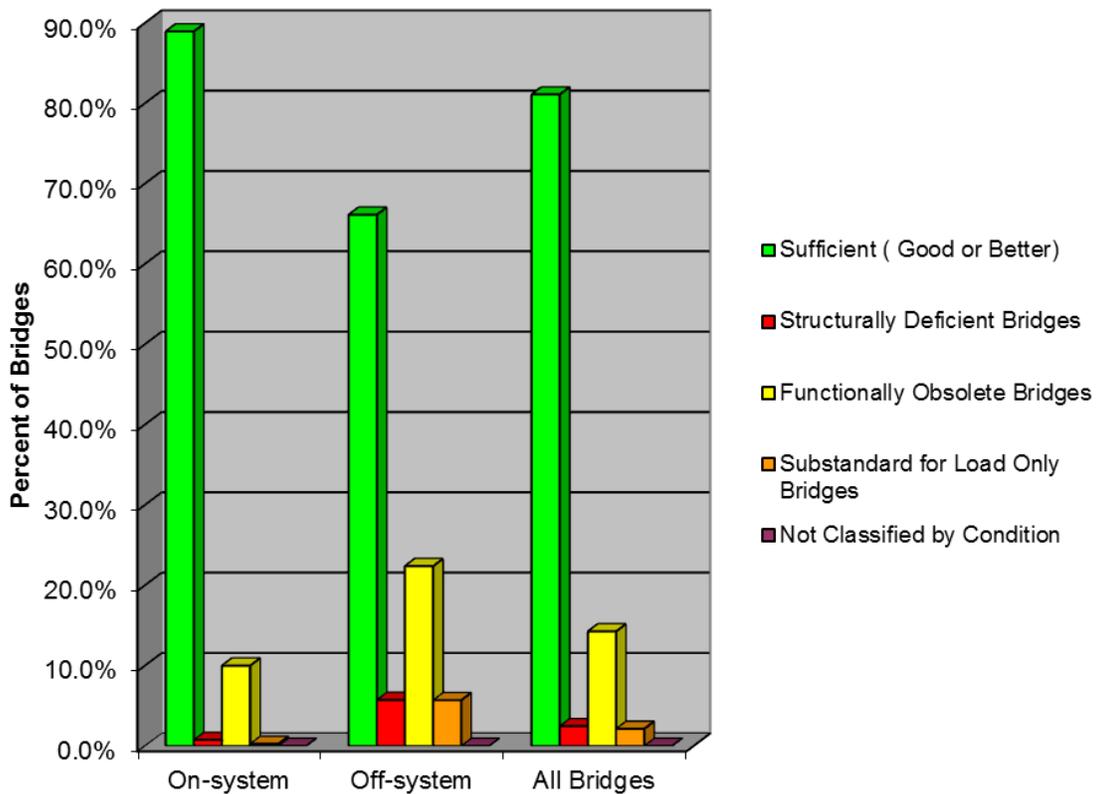


Figure 3-1.

**Sufficient Bridges (Good or Better).** In September 2012, a total of 42,359 of the state's 52,227 bridges were classified as sufficient, including bridges that were not classified by condition: 30,474 on-system and 11,885 off-system. This means more than 81% of Texas' bridges meet or exceed all state and federal safety requirements. By comparison, in September 2010, a total of 41,420 of the state's 51,557 bridges were classified as sufficient, including bridges that were not classified by condition: 29,809 on-system and 11,611 off-system. This constitutes a statewide increase of 939 sufficient bridges for this reporting period.

**Structurally Deficient Bridges.** In September 2012, a total of 1,292 of the state's bridges were structurally deficient: 261 on-system and 1031 off-system. By comparison, in September 2010, a total of 1,553 of the state's bridges were structurally deficient: 305 on-system and 1,248 off-system. This constitutes a statewide decrease of 261 in structurally deficient bridges for this reporting period.

**Functionally Obsolete Bridges.** In September 2012, a total of 7,453 of the state's bridges were functionally obsolete: 3,429 on-system and 4,024 off-system. By comparison, in September 2010, a total of 7,433 of the state's bridges were functionally obsolete: 3,471 on-system and 3,962 off-system. This constitutes a statewide increase of 20 in functionally obsolete bridges for this reporting period.

**Sub-Standard for Load Only Bridges.** In September 2012, a total of 1,118 of the state's bridges were sub-standard for load only: 92 on-system and 1,026 off-system. By comparison, in September 2010, a total of 1,151 of the state's bridges were sub-standard for load only: 94 on-system and 1,057 off-system. This constitutes a statewide decrease of 33 in sub-standard for load only bridges for this reporting period.

It is important to note that sub-standard for load only structures are not recognized as non-sufficient structures by the FHWA and therefore are not eligible for HBP funds. TxDOT categorizes sub-standard for load only structures as non-sufficient because they are load-posted and therefore could impede the safe passage of school buses and emergency and commercial vehicles.

**Bridge Counts.** TxDOT tracks both on and off-system bridges by TxDOT district and by county. TxDOT has twenty-five districts and four regions. Please see Appendix A for a map of Texas counties overlaid with TxDOT districts and regions. Also, please see Appendices B and C that reflect the condition of on and off-system bridges by TxDOT district and by county as of September, 2012.

### **Change in Condition of Bridges.**

The following table and figure summarize the change in condition of non-sufficient bridges from FY 2010 to FY 2012. They reflect a steady decrease in the number of bridges that are structurally deficient or sub-standard for load only, and a slight increase in the number of functionally obsolete bridges.

**Change in Condition of Non-Sufficient Bridges from FY 2010 through FY 2012**

| Condition                  | Change On-System | Change Off-System | Total Change |
|----------------------------|------------------|-------------------|--------------|
| Structurally Deficient     | -44              | -217              | -261         |
| Functionally Obsolete      | -42              | 62                | +20          |
| Sub-standard for load only | -2               | -31               | -33          |
| Total Change               | -88              | -186              | -274         |

Table 3-2.

**Change in Condition of Non-Sufficient Bridges from FY 2010 through FY 2012**

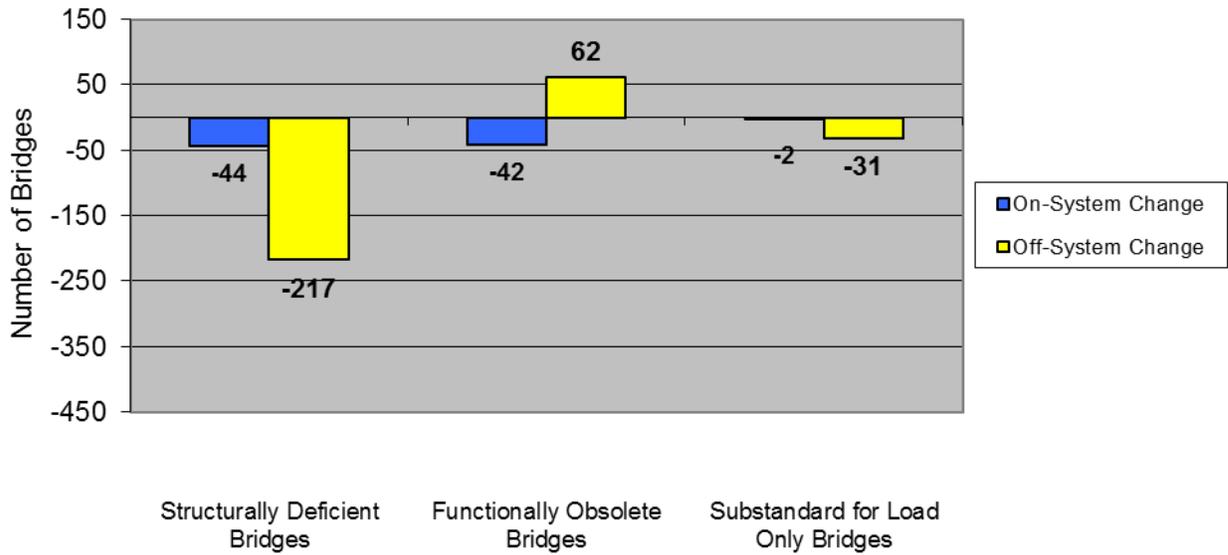


Figure 3-2.

**Load Posted and Closed Bridges.** Included within the categories of non-sufficient bridges are load-posted and closed bridges. As shown in the following table, in September 2012 Texas had 214 load-posted, 16 closed and 19 recommended for posting or closure on-system bridges. Also in September 2012, Texas had 2171 load-posted, 104 closed and 332 recommended for posting or closure off-system bridges. Please note, the count of load posted and closed bridges is included in the count of non-sufficient bridges above and is not in addition to those numbers.

### Load Posted and Closed Bridges as of September 2012

| District       | On-system Bridges |           |                                    | Off-system Bridges |            |                                    |
|----------------|-------------------|-----------|------------------------------------|--------------------|------------|------------------------------------|
|                | Posted            | Closed    | Recommended for Posting or Closure | Posted             | Closed     | Recommended for Posting or Closure |
| Abilene        | 16                | 1         | 0                                  | 82                 | 7          | 21                                 |
| Amarillo       | 6                 | 0         | 1                                  | 24                 | 0          | 1                                  |
| Atlanta        | 2                 | 0         | 1                                  | 15                 | 1          | 2                                  |
| Austin         | 19                | 3         | 0                                  | 76                 | 0          | 0                                  |
| Beaumont       | 7                 | 0         | 1                                  | 51                 | 3          | 5                                  |
| Brownwood      | 13                | 0         | 1                                  | 98                 | 6          | 4                                  |
| Bryan          | 7                 | 0         | 0                                  | 119                | 5          | 14                                 |
| Childress      | 7                 | 0         | 0                                  | 47                 | 6          | 0                                  |
| Corpus Christi | 8                 | 1         | 8                                  | 41                 | 0          | 1                                  |
| Dallas         | 38                | 2         | 1                                  | 151                | 12         | 16                                 |
| El Paso        | 1                 | 2         | 0                                  | 68                 | 0          | 11                                 |
| Fort Worth     | 10                | 3         | 0                                  | 172                | 3          | 3                                  |
| Houston        | 2                 | 1         | 0                                  | 223                | 4          | 1                                  |
| Laredo         | 0                 | 0         | 0                                  | 45                 | 2          | 1                                  |
| Lubbock        | 0                 | 0         | 0                                  | 8                  | 0          | 0                                  |
| Lufkin         | 11                | 0         | 3                                  | 168                | 1          | 0                                  |
| Odessa         | 0                 | 2         | 0                                  | 4                  | 2          | 0                                  |
| Paris          | 21                | 0         | 2                                  | 97                 | 11         | 83                                 |
| Pharr          | 0                 | 1         | 0                                  | 20                 | 12         | 9                                  |
| San Angelo     | 1                 | 0         | 0                                  | 33                 | 2          | 0                                  |
| San Antonio    | 0                 | 0         | 0                                  | 39                 | 1          | 10                                 |
| Tyler          | 2                 | 0         | 0                                  | 71                 | 3          | 52                                 |
| Waco           | 31                | 0         | 1                                  | 224                | 16         | 59                                 |
| Wichita Falls  | 6                 | 0         | 0                                  | 78                 | 2          | 0                                  |
| Yoakum         | 6                 | 0         | 0                                  | 217                | 5          | 39                                 |
| <b>Total</b>   | <b>214</b>        | <b>16</b> | <b>19</b>                          | <b>2171</b>        | <b>104</b> | <b>332</b>                         |

Table 3-3.

Local governments are legally required to comply with a TxDOT bridge inspector's request to load-post an off-system bridge. Federal law requires that load-posting signs be installed within 90 days of a change in status indicating deficiency of an on-system bridge and within 180 days of a change in status indicating deficiency of an off-system bridge. The process of posting an off-system bridge may take several months. First, TxDOT inspects the bridge, analyzes the

inspection data, and makes a formal posting recommendation. Then, the local government acknowledges the request and arranges for fabrication of appropriate signs. To assist in this process and at the request of the local government, TxDOT will supply the signs and make them available to the local government for installation.

Local governments are encouraged but not legally required to comply with a request to close an off-system bridge. To encourage compliance, TxDOT uses its Participation-Waived Project/Equivalent Match Project (PWP/EMP) program, described in Chapter 4 of this report, to encourage compliance by local governments with recommendations for posting or closure of off-system bridges. Local governments cannot participate in the PWP/EMP program until TxDOT confirms their compliance with all requests to post or close off-system bridges in their jurisdiction.

**Land-Locking Bridges.** Also included within the categories of non-sufficient bridges are land-locking bridges. The Texas Transportation Code establishes the minimum load that unposted Texas bridges must be able to carry. Bridges unable to safely support that minimum load must be load-posted to protect them and the people who travel them from possible harm. This minimum load is the state legal load. In general, the maximum gross load on any truck cannot exceed 80,000 pounds, the maximum load on any tandem axles cannot exceed 34,000 pounds, and the maximum load on any single axle cannot exceed 20,000 pounds.

However, vehicles exceeding posted limits may use load-posted bridges under certain conditions. Pursuant to current Texas law, a carrier may obtain for a fee an annual weight tolerance permit. The permit allows for the transport of excess loads on a land-locking bridge if the bridge provides the only public vehicular access to or from the permittee's origin or destination. In addition, certain vehicles identified in Chapter 622 of the Texas Transportation Code that exceed posted load capacity also can legally use load-posted bridges. Some examples include vehicles transporting concrete, timber, agricultural products or power poles.

Land-locking bridges limit the movement of legal loads into an area by imposing load restrictions or by being closed. TxDOT identifies a bridge or combination of bridges as land-locking only if no other public road into the area—and it must be a public road shown on a map maintained by TxDOT—is capable of supporting legal loads. As shown in the following table, in September 2012 Texas had 53 land-locking on-system bridges and 507 land-locking off-system bridges. These numbers represent a decrease of 23 land-locking bridges from FY 2010. Again, please note, the count of land-locking bridges is included in the count of non-sufficient bridges above and is not in addition to those numbers.

### Land-Locking Bridges as of September 2012

| District       | On-System Land-locking Bridges | Off-System Land-locking Bridges |
|----------------|--------------------------------|---------------------------------|
| Abilene        | 0                              | 13                              |
| Amarillo       | 0                              | 3                               |
| Atlanta        | 0                              | 2                               |
| Austin         | 9                              | 4                               |
| Beaumont       | 2                              | 17                              |
| Brownwood      | 2                              | 15                              |
| Bryan          | 1                              | 48                              |
| Childress      | 0                              | 9                               |
| Corpus Christi | 3                              | 11                              |
| Dallas         | 13                             | 39                              |
| El Paso        | 0                              | 6                               |
| Fort Worth     | 1                              | 18                              |
| Houston        | 0                              | 57                              |
| Laredo         | 0                              | 41                              |
| Lufkin         | 9                              | 51                              |
| Odessa         | 0                              | 2                               |
| Paris          | 6                              | 25                              |
| Pharr          | 0                              | 2                               |
| San Angelo     | 0                              | 9                               |
| San Antonio    | 0                              | 2                               |
| Tyler          | 0                              | 16                              |
| Waco           | 4                              | 56                              |
| Wichita Falls  | 2                              | 10                              |
| Yoakum         | 1                              | 51                              |
| <b>Total</b>   | <b>53</b>                      | <b>507</b>                      |

**Table 3-4.**

Vehicles that exceed posted limits but have a weight tolerance permit may legally use land-locking bridges. However, use of land-locking bridges for excess loads increases the risk of damage to the bridge.

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## Chapter 4 – Funding

**MAP-21.** MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141), was signed into law by President Obama on July 6, 2012. Funding surface transportation programs at over \$105 billion for fiscal years 2013 and 2014, MAP-21 is the first highway authorization enacted since 2005. The text and additional information on MAP-21 are available on the [FHWA's website](#).

MAP-21 restructures core highway formula programs. Activities carried out under some existing formula programs – including the Highway Bridge Program – are incorporated into the following new core formula program structure:

- National Highway Performance Program (NHPP)
- Surface Transportation Program (STP)
- Congestion Mitigation and Air Quality Improvement Program (CMAQ)
- Highway Safety Improvement Program (HSIP)
- Railway-Highway Crossings (set-aside from HSIP)
- Metropolitan Planning

While the previous federal Highway Bridge Program now has been incorporated into another core formula – NHPP – as of the writing of this report, TxDOT will continue to administer the HBP as a state program, following the same rules and conditions as previously set out. The federal dollars under MAP-21 will continue to provide funding to enable states to improve the condition of their highway bridges through replacement, rehabilitation, systematic preventive maintenance and inspection. The state HBP is administered by the TxDOT Bridge Division.

**Unified Transportation Program.** The TxDOT Unified Transportation Program (UTP) is a 10-year plan approved by the Texas Transportation Commission to guide transportation project development and construction. It contains 12 different categories of funding. Category 6 of the UTP is dedicated to bridge replacement and rehabilitation. The [2013 UTP](#) was approved by the Texas Transportation Commission through [Minute Order # 113074](#) on April 26, 2012.

**Terms.** This report uses the following terms to describe eligibility for funding of bridge projects under the state HBP:

*Category 6-on-system bridge projects:* This is a classification of replacement or rehabilitation work on structurally deficient or functionally obsolete *on-system* bridges that have a sufficiency rating of 80 or less and are, therefore, eligible for specific funding support under the HBP.

*Category 6-off-system bridge projects:* This is a classification of replacement or rehabilitation work on structurally deficient or functionally obsolete *off-system* bridges that have a sufficiency rating of 80 or less and are, therefore, eligible for specific funding support under the HBP.

*Programmed project:* A programmed project is a project that has been identified as eligible for funding (for example, under HBP), prioritized using specific TxDOT and federal criteria, and

listed in the current UTP as being authorized for letting to contract. Programmed projects are scheduled for letting of construction bids for a specific fiscal year.

*Sufficiency rating:* This is a numerical evaluation established by the FHWA. It measures a bridge's structural adequacy and safety, serviceability and functional obsolescence, and essentiality for traffic service. The higher the number, the more sufficient the bridge. The rating is used to determine whether a bridge project is eligible for HBP rehabilitation or replacement. A bridge must be structurally deficient or functionally obsolete and have a sufficiency rating less than 80 to be eligible for the HBP. A sufficiency rating of 80 or less is required to qualify for rehabilitation, and a sufficiency rating of less than 50 is required to qualify for replacement. A structurally deficient bridge with a sufficiency rating between 50 and 80 may qualify for replacement if justified by engineering or economic analysis. The lower the number, the higher the priority.

**HBP Funding.** TxDOT administers the state HBP by selecting bridge projects for funding according to various eligibility criteria, including but not limited to structural deficiency and functional obsolescence. Once eligible projects are identified, the structurally deficient and functionally obsolete bridges are ordered by sufficiency rating and included in the program list until available funding is exhausted. Finally, the projects are authorized using the UTP or, in its absence, by Commission Minute Order.

**On-System Bridge Projects Authorized to be Awarded Contracts.** TxDOT authorized the following classes of on-system bridge projects to be awarded contracts in FY 2010 through FY 2012:

- HBP-funded projects (UTP Category 6-on-system)
- Replacement and rehabilitation projects not funded under HBP (that is, these bridges are not necessarily structurally deficient or functionally obsolete, and the projects are funded under other funding categories)
- New-location bridge projects funded under other categories of funding

**Off-System Bridge Projects Authorized to be Awarded Contracts.** The following classes of off-system bridge projects were funded in FY 2010 through FY 2012:

- HBP-funded project (UTP Category 6-off-system)
- Replacement and rehabilitation projects not funded under HBP (that is, these bridges are not necessarily structurally deficient or functionally obsolete)
- New-location bridge projects not funded with Category 6 funds.

**PWP/EMP Program.** In FY 2001, TxDOT initiated its Participation-Waived Project/Equivalent-Match Project (PWP/EMP) program to allow a local government to waive its 10% cost participation requirement in an HBP off-system bridge project if it agrees to use an equivalent dollar amount to improve other deficient structures in its jurisdiction.<sup>1</sup> In addition to

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<sup>1</sup> A November 2001 amendment to the PWP/EMP program expanded the safety-improvement types of work that may be classified as EMP projects and allowed local governments to receive EMP credit for work performed in geographically adjacent governmental units.

HBP-programmed bridges, EMP work may be performed on bridge structures that are not part of the National Bridge Inventory.

**Other Funding Resources for Off-system Bridge Work.** Texas provides additional resources for local governments to facilitate improvement of off-system bridges, and those resources include the following:

- The [State Infrastructure Bank \(SIB\)](#) is a revolving account in the State Highway Fund from which TxDOT may award loans to local governments to fund eligible transportation projects.
- TxDOT's Economically Disadvantaged Counties (EDC) Program allows TxDOT to adjust a county's matching funds requirements after evaluating the local government's ability to meet the requirement. TxDOT also allows a county participating in the EDC program to use its adjusted participation amount in lieu of all or part of its cost participation in the PWP/EMP program. More information on this program is available in TxDOT's [Bridge Project Development Manual](#) and in TxDOT's [Transportation Planning Manual](#).

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## Chapter 5 – On-System Contract Awards

### Contracts Awarded in FY 2012 for On-System Bridge Projects.

**HBP Projects.** The following table shows on-system bridges in HBP projects awarded contracts in TxDOT districts in FY 2012, with historical information on FY 2010 provided for comparison. Please note that HBP does not provide funding for new location bridges, so that information is not included in this table.

**On-System Bridges Awarded in HBP Projects, by District**

| District       | Bridges |      | District      | Bridges   |           |
|----------------|---------|------|---------------|-----------|-----------|
|                | 2010    | 2012 |               | 2010      | 2012      |
| Abilene        | 0       | 1    | Laredo        | 1         | 0         |
| Amarillo       | 5       | 9    | Lubbock       | 0         | 0         |
| Atlanta        | 4       | 3    | Lufkin        | 9         | 0         |
| Austin         | 7       | 1    | Odessa        | 0         | 0         |
| Beaumont       | 3       | 5    | Paris         | 7         | 3         |
| Brownwood      | 1       | 4    | Pharr         | 0         | 0         |
| Bryan          | 1       | 8    | San Angelo    | 3         | 2         |
| Childress      | 5       | 1    | San Antonio   | 1         | 1         |
| Corpus Christi | 4       | 1    | Tyler         | 2         | 1         |
| Dallas         | 9       | 11   | Waco          | 5         | 2         |
| El Paso        | 0       | 2    | Wichita Falls | 5         | 0         |
| Fort Worth     | 3       | 2    | Yoakum        | 8         | 7         |
| Houston        | 6       | 2    | <b>Total</b>  | <b>89</b> | <b>66</b> |

Table 5-1.

**Non-HBP Projects.** The following table shows on-system bridges in non-HBP projects awarded contracts in TxDOT districts in FY 2010, with historical information on FY 2012 provided for comparison. Please note that this table does include information for new location bridges.

**On-System Bridges Awarded in Non-HBP Projects, by District**

| District       | 2010                 |              | 2012                 |              |
|----------------|----------------------|--------------|----------------------|--------------|
|                | New-location Bridges | Repl./Rehab. | New-location Bridges | Repl./Rehab. |
| Abilene        | 0                    | 5            | 0                    | 8            |
| Amarillo       | 2                    | 0            | 2                    | 3            |
| Atlanta        | 2                    | 7            | 0                    | 2            |
| Austin         | 17                   | 9            | 2                    | 12           |
| Beaumont       | 6                    | 5            | 1                    | 2            |
| Brownwood      | 0                    | 0            | 3                    | 5            |
| Bryan          | 2                    | 2            | 7                    | 2            |
| Childress      | 0                    | 0            | 0                    | 2            |
| Corpus Christi | 0                    | 8            | 6                    | 1            |
| Dallas         | 20                   | 22           | 37                   | 27           |
| El Paso        | 1                    | 1            | 9                    | 5            |
| Fort Worth     | 45                   | 5            | 1                    | 2            |
| Houston        | 27                   | 25           | 8                    | 4            |
| Laredo         | 10                   | 3            | 3                    | 1            |
| Lubbock        | 7                    | 7            | 3                    | 1            |
| Lufkin         | 2                    | 4            | 9                    | 5            |
| Odessa         | 3                    | 0            | 0                    | 0            |

| District      | 2010                 |              | 2012                 |              |
|---------------|----------------------|--------------|----------------------|--------------|
|               | New-location Bridges | Repl./Rehab. | New-location Bridges | Repl./Rehab. |
| Paris         | 5                    | 0            | 1                    | 7            |
| Pharr         | 15                   | 3            | 11                   | 3            |
| San Angelo    | 0                    | 1            | 0                    | 0            |
| San Antonio   | 2                    | 5            | 13                   | 6            |
| Tyler         | 3                    | 3            | 0                    | 1            |
| Waco          | 12                   | 52           | 38                   | 16           |
| Wichita Falls | 6                    | 3            | 2                    | 2            |
| Yoakum        | 4                    | 17           | 0                    | 6            |
| <b>Total</b>  | <b>191</b>           | <b>187</b>   | <b>156</b>           | <b>123</b>   |

Table 5-2.

**Condition of Bridges Replaced or Rehabilitated.** The following table shows the condition of on-system bridges that were replaced or rehabilitated in FY 2012.

**On-System Bridges Replaced or Rehabilitated in FY 2012**

| Condition   | HBP Funded | Non-HBP Funded | Total No. of Repl./Rehab. Bridges | Percent of Repl./Rehab. Bridges |
|---|------------|----------------|-----------------------------------|---------------------------------|
| Structurally Deficient                              | 40         | 3              | 43                                | 22.6%                           |
| Functionally Obsolete                               | 23         | 13             | 36                                | 19.4%                           |
| Not Structurally Deficient or Functionally Obsolete | 2          | 105            | 107                               | 58.0%                           |
| <b>Total</b>  | <b>65</b>  | <b>121</b>     | <b>186</b>                        | <b>100%</b>                     |

Table 5-3.

**Funding Levels.** The following table shows funding levels and the number of on-system bridges in projects let in FY 2012.

**On-System Bridges in Bridge Projects Awarded in FY 2012**

|                                   | HBP-funded |            | Non-HBP Repl./Rehab. |            | Non-HBP New-location |            | Total    |
|-----------------------------------|------------|------------|----------------------|------------|----------------------|------------|----------|
|                                   |            | % of Total |                      | % of Total |                      | % of Total |          |
| Funding for Bridge Projects Let   | \$200.7M   | 28.1%      | \$182.2M             | 25.5%      | \$331.1M             | 46.4%      | \$714.0M |
| Number of Bridges in Projects Let | 66         | 19.1%      | 123                  | 35.7%      | 156                  | 45.2%      | 345      |
| Number of Bridge Projects Let     | 55         | 29.1%      | 75                   | 39.7%      | 59                   | 31.2%      | 189      |

Table 5-4.

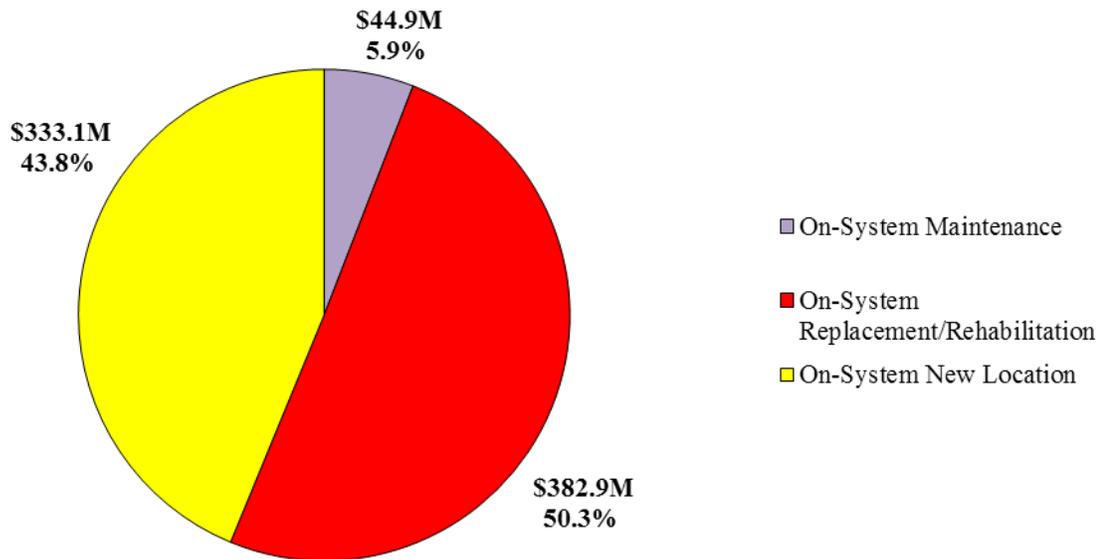
For on-system bridge construction in FY 2012—which included rehabilitation, replacement, and new-location bridges—45.2% of the bridges addressed (up from 38.1 % in FY 2010) were new-location bridges. Of the money spent on bridge construction in FY 2012, 46.4% (down from 54.6% in FY 2010) was used for new-location bridges.

**On-system Bridge Maintenance Projects Awarded in FY 2012.** In FY 2012, maintenance (including preventive maintenance) funds for on-system bridges came from two sources:

- **TxDOT Statewide Maintenance Expenditures:** In FY 2012, TxDOT spent \$33.1 million on funding for bridge maintenance. In FY 2010, TxDOT spent \$22.6 million on funding for bridge maintenance
- **TxDOT Construction Contract Awards:** In FY 2012, TxDOT awarded construction contracts in the amount of \$11.8 million for bridge maintenance. In FY 2010, TxDOT awarded construction contracts in the amount of \$8.42 million for bridge maintenance.

**Summary of FY 2012 Funds Spent on On-system Bridges.** The following figure shows the distribution of money spent in FY 2012 for on-system bridge maintenance, bridge replacement and rehabilitation, and construction of new-location bridges.

**Distribution of Funds Spent on On-system Bridges in FY 2012 (\$760.9M Total)**



**Figure 5-1.**

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**Chapter 6 – Off-System Contract Awards**

**Contracts Awarded in FY 2012 for Off-System Bridge Projects.**

**HBP Projects.** The following table shows off-system bridges in HBP projects awarded in TxDOT districts in FY 2012, with historical information on FY 2010 provided for comparison. Again, please note that HBP does not provide funding for new location bridges, so that information is not included in this table.

**Off-System Bridges Awarded in HBP Projects, by District**

| District       | Bridges |      | District      | Bridges    |            |
|----------------|---------|------|---------------|------------|------------|
|                | 2010    | 2012 |               | 2010       | 2012       |
| Abilene        | 9       | 1    | Laredo        | 2          | 1          |
| Amarillo       | 3       | 4    | Lubbock       | 0          | 0          |
| Atlanta        | 14      | 4    | Lufkin        | 3          | 10         |
| Austin         | 10      | 2    | Odessa        | 0          | 0          |
| Beaumont       | 4       | 0    | Paris         | 17         | 16         |
| Brownwood      | 3       | 5    | Pharr         | 0          | 0          |
| Bryan          | 9       | 3    | San Angelo    | 1          | 0          |
| Childress      | 5       | 8    | San Antonio   | 4          | 3          |
| Corpus Christi | 3       | 0    | Tyler         | 0          | 2          |
| Dallas         | 10      | 14   | Waco          | 13         | 10         |
| El Paso        | 2       | 0    | Wichita Falls | 0          | 6          |
| Fort Worth     | 8       | 3    | Yoakum        | 9          | 12         |
| Houston        | 25      | 15   | <b>Total</b>  | <b>154</b> | <b>119</b> |

**Table 6-1.**

**Non-HBP Projects.** The following table shows off-system bridges in non-HBP bridge projects awarded in TxDOT districts in FY 2012, with historical information on FY 2010 provided for comparison. Please note that this table does include funding information for new location bridges.

**Off-System Bridges Awarded in Non-HBP Projects, by District**

| District       | 2010                 |              | 2012                 |              |
|----------------|----------------------|--------------|----------------------|--------------|
|                | New-location Bridges | Repl./Rehab. | New-location Bridges | Repl./Rehab. |
| Abilene        | 0                    | 0            | 1                    | 0            |
| Amarillo       | 0                    | 0            | 0                    | 0            |
| Atlanta        | 0                    | 0            | 0                    | 0            |
| Austin         | 1                    | 0            | 0                    | 0            |
| Beaumont       | 0                    | 0            | 0                    | 1            |
| Brownwood      | 0                    | 0            | 0                    | 0            |
| Bryan          | 0                    | 0            | 0                    | 0            |
| Childress      | 0                    | 0            | 0                    | 0            |
| Corpus Christi | 0                    | 0            | 0                    | 0            |
| Dallas         | 0                    | 0            | 0                    | 0            |
| El Paso        | 0                    | 0            | 0                    | 0            |
| Fort Worth     | 4                    | 0            | 0                    | 0            |
| Houston        | 0                    | 1            | 6                    | 1            |
| Laredo         | 0                    | 0            | 0                    | 0            |
| Lubbock        | 0                    | 0            | 0                    | 0            |

| District      | 2010                 |              | 2012                 |              |
|---------------|----------------------|--------------|----------------------|--------------|
|               | New-location Bridges | Repl./Rehab. | New-location Bridges | Repl./Rehab. |
| Lufkin        | 0                    | 0            | 0                    | 0            |
| Odessa        | 0                    | 0            | 0                    | 0            |
| Paris         | 0                    | 0            | 0                    | 0            |
| Pharr         | 5                    | 0            | 0                    | 0            |
| San Angelo    | 0                    | 1            | 0                    | 0            |
| San Antonio   | 14                   | 0            | 1                    | 0            |
| Tyler         | 0                    | 0            | 0                    | 0            |
| Waco          | 0                    | 0            | 0                    | 0            |
| Wichita Falls | 0                    | 0            | 0                    | 0            |
| Yoakum        | 0                    | 0            | 0                    | 0            |
| <b>Total</b>  | <b>24</b>            | <b>2</b>     | <b>8</b>             | <b>1</b>     |

Table 6-2.

Except for the HBP, TxDOT has limited authority to fund locally owned bridge projects. However, some projects may be selected for construction off the state highway system on roadways with a sufficient functional classification (greater than a local road or rural minor collector). These projects are funded under UTP Category 11, District Discretionary.

**Condition of Bridges Replaced or Rehabilitated.** The following table shows the condition of off-system bridges that were removed or rehabilitated in FY 2012.

**Off-System Bridges Replaced or Rehabilitated in FY 2012**

| Condition   | HBP Funded | Non-HBP Funded | Total No. of Repl./Rehab. Bridges | Percent of Repl./Rehab. Bridges |
|---|------------|----------------|-----------------------------------|---------------------------------|
| Structurally Deficient                              | 110        | 0              | 110                               | 90.9%                           |
| Functionally Obsolete                               | 9          | 2              | 11                                | 9.1%                            |
| Not Structurally Deficient or Functionally Obsolete | 0          | 0              | 0                                 | 0%                              |
| <b>Total</b>  | <b>119</b> | <b>2</b>       | <b>121</b>                        | <b>100%</b>                     |

Table 6-3.

**Funding Levels.** The following table shows funding levels and the number of off-system bridges in projects awarded in FY 2012.

**Off-System Bridges in Projects Awarded in FY 2012**

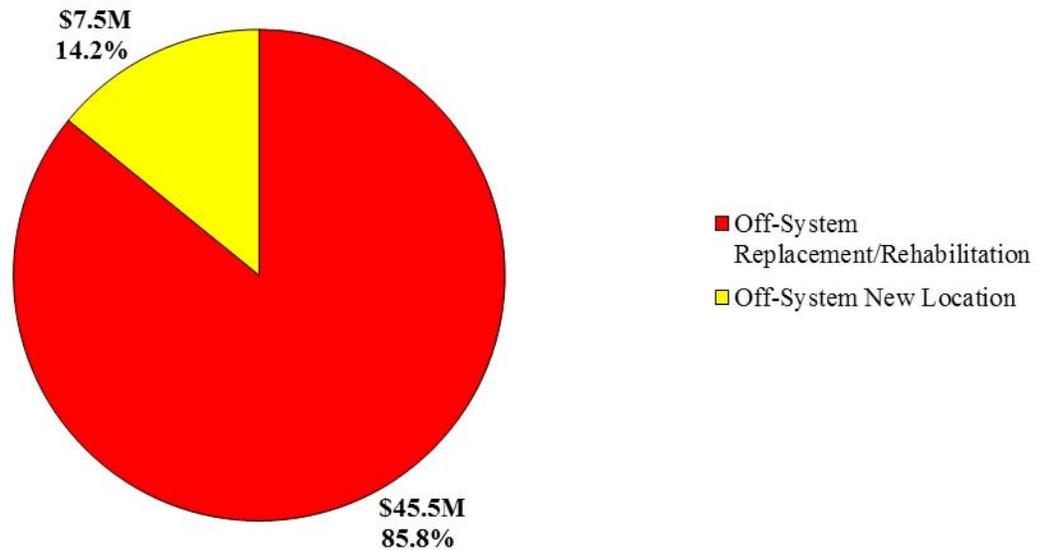
|                                   | HBP-funded |            | Non-HBP Repl./Rehab. |            | Non-HBP New-location |            | Total   |
|-----------------------------------|------------|------------|----------------------|------------|----------------------|------------|---------|
|                                   |            | % of Total |                      | % of Total |                      | % of Total |         |
| Funding for Bridge Projects Let   | \$43.9M    | 82.8%      | \$1.6M               | 3.0%       | \$7.5M               | 14.2%      | \$53.0M |
| Number of Bridges in Projects Let | 119        | 90.8%      | 2                    | 1.5%       | 10                   | 7.6%       | 131     |
| Number of Bridge Projects Let     | 114        | 94.2%      | 2                    | 1.7%       | 5                    | 4.1%       | 121     |

Table 6-4.

**Off-System Bridge Maintenance.** As discussed in Chapter 2, off-system bridges are not part of the designated state highway system and are under the direct jurisdiction of the local government such as a county, city, or other political subdivision of the state, or special district with authority to finance a highway improvement project. As a result, maintenance expenditures for off-system bridges are the responsibility of the local jurisdictions.

**Summary of FY 2012 Funds Spent on Off-System Bridges.** The following figure shows the distribution of money spent in FY 2012 for off-system bridge replacement and rehabilitation and construction of new-location bridges. As noted above, state funds are not used for the maintenance of off-system bridges.

**Distribution of Funds Spent on Off-System Bridges in FY 2012 (\$53.0 M Total)**



**Figure 6-1.**

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## Chapter 7 – Meeting the Challenges

**Goals.** In August 2001, TxDOT adopted a goal that within ten years, or by the end of FY 2011, at least 80% of the bridges in Texas would be in good or better condition. Additionally, TxDOT has adopted a goal to accelerate the upgrade of and to eliminate structurally deficient on-system bridges.

In September 2001, 70% of Texas bridges were in good or better condition. In September 2002, this number increased to 71%; in September 2003, 75%; in September 2004, 76%; in September 2006, 77%; September 2008, 78%; in 2010, 80%; and in 2012, 81% of Texas bridges were in good or better condition. As this shows, TxDOT has met its goal – one year ahead of time – to have 80% of bridges in good or better condition and continues to improve that number. In addition, we are consistently eliminating on-system structurally deficient bridges from our inventory.

**Challenges for Eliminating All Structurally Deficient On-system Bridges.** In September 2000, Texas had 758 structurally deficient on-system bridges. During FY 2001 the inventory of structurally deficient on-system bridges actually increased by 5, and in September 2001 Texas had 763 structurally deficient on-system bridges. The inventory of structurally deficient on-system bridges has gradually decreased since 2001. In September 2002 Texas had 693 structurally deficient on-system bridges; in September 2003, 645; in September 2004, 565; in September 2006, 483; in September 2008, 354; in September 2010, 305; and in September 2012, 261. Again, TxDOT is making steady and consistent progress toward this goal.

**Bridge Resources Needed.** TxDOT will continue to maximize the use of funds made available for bridge construction and repair. The agency also will continue to explore, develop and implement creative programs to improve Texas bridges. In addition, TxDOT is committed to using all of the financial tools made available to it by the Texas Legislature in order to meet its goals.

Also, developments in technology are playing a critical role in increasing our efficiencies to get the most from our limited transportation funding. Access to information about Texas bridges is essential for effective planning and monitoring. TxDOT has developed an automated system to facilitate the management of on- and off-system bridges. The Bridge Management Information System (BMIS), based on AASHTO's bridge management software, Pontis, allows TxDOT to store and process bridge inspection data, bridge photographs, bridge reports, and other bridge information in a relational database. Information retrieval is possible in a variety of textual and graphical formats. The retrieved information facilitates the assessment of implications of project decisions, understanding the impact of alternative bridge management strategies, forecasting preventive maintenance, and evaluation of bridge performance over time. Information retrieval is quick, and retrieved information is easily shared and available in user-friendly formats. This system has greatly increased the efficiency of bridge management and administration. This system is especially useful in tracking the condition of Texas bridges at a level of detail and frequency required to facilitate prioritization of funding to ensure that those bridges with the

greatest need are given the highest priority. BMIS has better equipped TxDOT to meet the challenges inherent to reaching and exceeding our goals for improving Texas bridges.

However, Texas is facing enormous and rapidly increasing transportation needs, with no quick and easy solutions to meet them. Demand is outpacing funding and transfers of transportation dollars to non-transportation projects has left Texas with a funding shortage that must be addressed.

**The Bigger Picture.** In 2008, Texas Transportation Commission Chair Deirdre Delisi appointed members of the original 2030 Committee. The initial charge of this committee made up of experienced and respected business leaders was to provide an independent, authoritative assessment of the state’s transportation infrastructure and mobility needs from 2009 to 2030. The report that emerged from the first 2030 Committee, entitled *2030 Committee Texas Transportation Needs Report*, was released in February 2009 and can be found, along with its executive summary, on the [Committee’s website](#).

In July 2010, Chair Delisi reconvened the 2030 Committee, which includes most of the original Committee members, and charged it with developing a forecast for alternative levels of service for four elements of the Texas transportation system—including bridges—along with analyzing potential sources of transportation revenue and determining the economic effects of under-investing in the system. This [report](#) was published in March 2011 and adopted by the Texas Transportation Commission on March 31, 2011.

According to the report, addressing current bridge deficiencies would require \$3 billion as of 2010. The report also states that the cost to repair the backlog of deficient bridges will increase from \$3 billion in 2010 to \$7 billion in 2035 (in 2010 dollars).

The Committee went on to identify the following principles to be used in determining appropriate funding levels and ensure accountability with Texans:

- First and foremost, preserve Texas’ substantial investment in transportation infrastructure.
- Ensure Texas is getting “bang for the buck” in using its transportation system.
- Involve transportation users and employers in transportation solutions.
- Attack problems and seize opportunities.
- Display results and support accountability.
- Require users to pay for services they “consume.”
- Make timely decisions about transportation investment levels.

The 2030 Committee also reported that Texans pay less in transportation fees than residents of 43 other states, including residents in almost all states with which Texas competes economically. Based on the typical family vehicle, among the 50 states, Texas ranks:

- 18th in vehicle registration fees;
- 29th in state gasoline tax rate; and
- 44th in overall annual cost of vehicle ownership.

Texans pay less in transportation fees than residents of 43 other states, including residents in almost all states with which Texas competes economically. In addition, Texas motorists do not pay some taxes that are common in other states, including a property tax on vehicles.

**Tough Decisions.** The choice is clear: do nothing to address transportation challenges facing Texas—resulting in stop-and-go traffic, lost family and work time, and economic loss—or avoid further system degradation and substantial increases in vehicle use and maintenance costs through an increased investment in transportation funding.

**Staying on Course.** Obviously, challenges abound. To be able to continue to meet these challenges, TxDOT continually monitors its performance against the principles, measures and goals set out in this report.

TxDOT is committed to dedicating resources, increasing efficiencies and maximizing funding opportunities to improve our bridges. We will continue to work together with the Legislature and local governments to maximize efficiencies and use all the financial tools available to improve the bridges in Texas and ensure the safety of the traveling public.

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Appendix A – Map of Texas Counties with TxDOT Districts and Regions

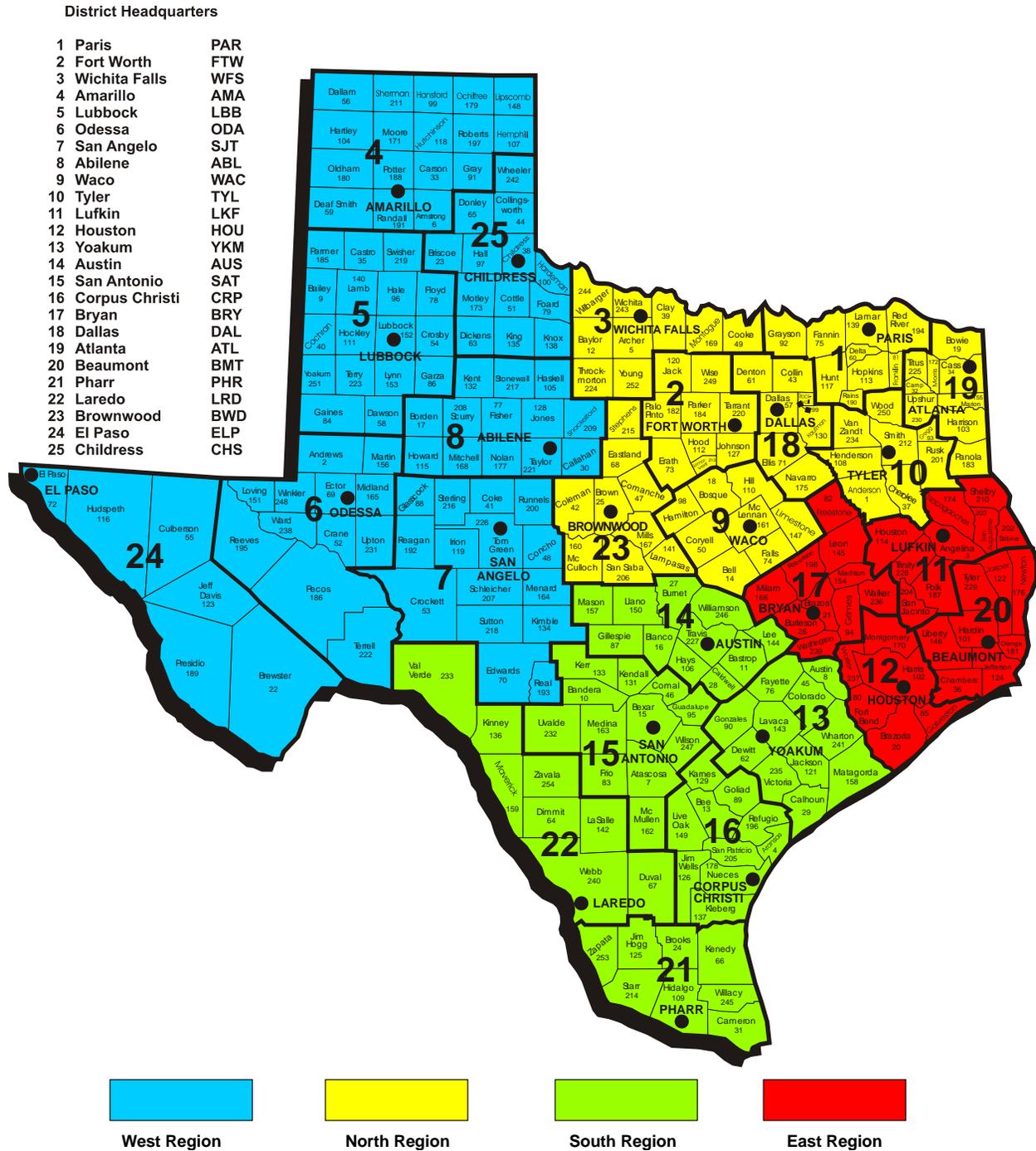


Figure A-1. Map of Texas Counties with TxDOT Districts and Regions

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**Appendix B – Condition of On-System bridges by TxDOT District and County as of September, 2012.**

| District | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|----------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|          |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
| Abilene  |                       |                                |                        |                       |                            |               |                        |
|          | Shackelford           | 64                             | 0                      | 1                     | 2                          | 67            |                        |
|          | Borden                | 47                             | 0                      | 1                     | 1                          | 49            |                        |
|          | Stonewall             | 34                             | 0                      | 1                     | 0                          | 35            |                        |
|          | Scurry                | 85                             | 1                      | 9                     | 0                          | 95            |                        |
|          | Nolan                 | 120                            | 2                      | 9                     | 0                          | 131           |                        |
|          | Mitchell              | 90                             | 2                      | 20                    | 4                          | 116           |                        |
|          | Callahan              | 135                            | 0                      | 3                     | 0                          | 138           |                        |
|          | Jones                 | 114                            | 0                      | 2                     | 1                          | 117           |                        |
|          | Howard                | 90                             | 0                      | 19                    | 0                          | 109           |                        |
|          | Haskell               | 64                             | 0                      | 3                     | 0                          | 67            |                        |
|          | Fisher                | 70                             | 0                      | 6                     | 2                          | 78            |                        |
|          | Kent                  | 25                             | 0                      | 0                     | 0                          | 25            |                        |
|          | Taylor                | 291                            | 0                      | 34                    | 0                          | 325           |                        |
|          | <b>District Total</b> | <b>1229</b>                    | <b>5</b>               | <b>108</b>            | <b>10</b>                  | <b>1352</b>   | <b>90.9%</b>           |
| Amarillo |                       |                                |                        |                       |                            |               |                        |
|          | Moore                 | 22                             | 1                      | 1                     | 0                          | 24            |                        |
|          | Ochiltree             | 23                             | 0                      | 1                     | 0                          | 24            |                        |
|          | Oldham                | 50                             | 0                      | 1                     | 0                          | 51            |                        |
|          | Potter                | 130                            | 8                      | 18                    | 0                          | 156           |                        |
|          | Randall               | 69                             | 1                      | 10                    | 0                          | 80            |                        |
|          | Sherman               | 25                             | 0                      | 0                     | 0                          | 25            |                        |
|          | Lipscomb              | 35                             | 1                      | 0                     | 0                          | 36            |                        |
|          | Deaf Smith            | 18                             | 0                      | 4                     | 0                          | 22            |                        |
|          | Roberts               | 20                             | 0                      | 0                     | 1                          | 21            |                        |
|          | Hutchinson            | 39                             | 1                      | 0                     | 0                          | 40            |                        |
|          | Hemphill              | 31                             | 0                      | 0                     | 0                          | 31            |                        |
|          | Hartley               | 15                             | 2                      | 0                     | 0                          | 17            |                        |
|          | Gray                  | 54                             | 1                      | 3                     | 0                          | 58            |                        |
|          | Dallam                | 20                             | 0                      | 1                     | 1                          | 22            |                        |
|          | Carson                | 32                             | 0                      | 1                     | 0                          | 33            |                        |
|          | Armstrong             | 11                             | 0                      | 0                     | 0                          | 11            |                        |
|          | Hansford              | 27                             | 0                      | 3                     | 0                          | 30            |                        |
|          | <b>District Total</b> | <b>621</b>                     | <b>15</b>              | <b>43</b>             | <b>2</b>                   | <b>681</b>    | <b>91.2%</b>           |
| Atlanta  |                       |                                |                        |                       |                            |               |                        |
|          | Morris                | 47                             | 0                      | 2                     | 0                          | 49            |                        |
|          | Bowie                 | 244                            | 0                      | 12                    | 0                          | 256           |                        |
|          | Upshur                | 124                            | 2                      | 5                     | 0                          | 131           |                        |
|          | Titus                 | 85                             | 0                      | 12                    | 0                          | 97            |                        |

| District         | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|------------------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|                  |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|                  | Panola                | 125                            | 1                      | 2                     | 0                          | 128           |                        |
|                  | Harrison              | 201                            | 2                      | 9                     | 0                          | 212           |                        |
|                  | Cass                  | 132                            | 0                      | 0                     | 0                          | 132           |                        |
|                  | Camp                  | 35                             | 0                      | 1                     | 0                          | 36            |                        |
|                  | Marion                | 40                             | 1                      | 5                     | 0                          | 46            |                        |
|                  | <b>District Total</b> | <b>1033</b>                    | <b>6</b>               | <b>48</b>             | <b>0</b>                   | <b>1087</b>   | <b>95.0%</b>           |
| <b>Austin</b>    |                       |                                |                        |                       |                            |               |                        |
|                  | Mason                 | 66                             | 2                      | 7                     | 0                          | 75            |                        |
|                  | Travis                | 560                            | 3                      | 123                   | 0                          | 686           |                        |
|                  | Llano                 | 66                             | 2                      | 8                     | 0                          | 76            |                        |
|                  | Lee                   | 51                             | 0                      | 14                    | 1                          | 66            |                        |
|                  | Hays                  | 100                            | 0                      | 23                    | 0                          | 123           |                        |
|                  | Caldwell              | 138                            | 1                      | 10                    | 2                          | 151           |                        |
|                  | Burnet                | 59                             | 0                      | 19                    | 2                          | 80            |                        |
|                  | Blanco                | 41                             | 0                      | 10                    | 4                          | 55            |                        |
|                  | Bastrop               | 116                            | 0                      | 13                    | 0                          | 129           |                        |
|                  | Gillespie             | 81                             | 0                      | 10                    | 0                          | 91            |                        |
|                  | Williamson            | 384                            | 0                      | 42                    | 1                          | 427           |                        |
|                  | <b>District Total</b> | <b>1662</b>                    | <b>8</b>               | <b>279</b>            | <b>10</b>                  | <b>1959</b>   | <b>84.8%</b>           |
| <b>Beaumont</b>  |                       |                                |                        |                       |                            |               |                        |
|                  | Jasper                | 123                            | 2                      | 9                     | 0                          | 134           |                        |
|                  | Tyler                 | 66                             | 1                      | 7                     | 0                          | 74            |                        |
|                  | Orange                | 98                             | 6                      | 6                     | 0                          | 110           |                        |
|                  | Newton                | 102                            | 1                      | 10                    | 0                          | 113           |                        |
|                  | Jefferson             | 238                            | 8                      | 34                    | 0                          | 280           |                        |
|                  | Hardin                | 115                            | 0                      | 3                     | 0                          | 118           |                        |
|                  | Chambers              | 112                            | 0                      | 6                     | 0                          | 118           |                        |
|                  | Liberty               | 146                            | 2                      | 3                     | 0                          | 151           |                        |
|                  | <b>District Total</b> | <b>1000</b>                    | <b>20</b>              | <b>78</b>             | <b>0</b>                   | <b>1098</b>   | <b>91.1%</b>           |
| <b>Brownwood</b> |                       |                                |                        |                       |                            |               |                        |
|                  | McCulloch             | 87                             | 0                      | 4                     | 1                          | 92            |                        |
|                  | Lampasas              | 69                             | 1                      | 5                     | 1                          | 76            |                        |
|                  | Stephens              | 77                             | 1                      | 4                     | 1                          | 83            |                        |
|                  | San Saba              | 63                             | 0                      | 6                     | 0                          | 69            |                        |
|                  | Eastland              | 161                            | 0                      | 7                     | 2                          | 170           |                        |
|                  | Brown                 | 125                            | 0                      | 2                     | 0                          | 127           |                        |
|                  | Comanche              | 99                             | 2                      | 13                    | 2                          | 116           |                        |
|                  | Coleman               | 101                            | 0                      | 5                     | 0                          | 106           |                        |
|                  | Mills                 | 50                             | 0                      | 2                     | 1                          | 53            |                        |
|                  | <b>District Total</b> | <b>832</b>                     | <b>4</b>               | <b>48</b>             | <b>8</b>                   | <b>892</b>    | <b>93.3%</b>           |
| <b>Bryan</b>     |                       |                                |                        |                       |                            |               |                        |
|                  | Madison               | 82                             | 0                      | 21                    | 0                          | 103           |                        |
|                  | Washington            | 89                             | 1                      | 8                     | 0                          | 98            |                        |
|                  | Walker                | 104                            | 1                      | 8                     | 1                          | 114           |                        |
|                  | Milam                 | 106                            | 4                      | 17                    | 0                          | 127           |                        |
|                  | Leon                  | 115                            | 3                      | 8                     | 0                          | 126           |                        |

| District       | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|----------------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|                |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|                | Grimes                | 100                            | 1                      | 17                    | 0                          | 118           |                        |
|                | Freestone             | 92                             | 3                      | 21                    | 0                          | 116           |                        |
|                | Burleson              | 63                             | 0                      | 12                    | 0                          | 75            |                        |
|                | Brazos                | 176                            | 3                      | 19                    | 0                          | 198           |                        |
|                | Robertson             | 84                             | 3                      | 10                    | 0                          | 97            |                        |
|                | <b>District Total</b> | <b>1011</b>                    | <b>19</b>              | <b>141</b>            | <b>1</b>                   | <b>1172</b>   | <b>86.3%</b>           |
| Childress      |                       |                                |                        |                       |                            |               |                        |
|                | Briscoe               | 14                             | 0                      | 0                     | 0                          | 14            |                        |
|                | Hall                  | 85                             | 1                      | 2                     | 1                          | 89            |                        |
|                | Wheeler               | 82                             | 1                      | 1                     | 2                          | 86            |                        |
|                | Motley                | 39                             | 2                      | 2                     | 0                          | 43            |                        |
|                | Knox                  | 42                             | 2                      | 0                     | 0                          | 44            |                        |
|                | King                  | 39                             | 1                      | 0                     | 0                          | 40            |                        |
|                | Hardeman              | 52                             | 0                      | 2                     | 0                          | 54            |                        |
|                | Foard                 | 45                             | 2                      | 1                     | 1                          | 49            |                        |
|                | Donley                | 58                             | 0                      | 2                     | 0                          | 60            |                        |
|                | Dickens               | 59                             | 0                      | 1                     | 0                          | 60            |                        |
|                | Cottle                | 54                             | 0                      | 1                     | 1                          | 56            |                        |
|                | Childress             | 66                             | 0                      | 1                     | 0                          | 67            |                        |
|                | Collingsworth         | 44                             | 1                      | 0                     | 0                          | 45            |                        |
|                | <b>District Total</b> | <b>679</b>                     | <b>10</b>              | <b>13</b>             | <b>5</b>                   | <b>707</b>    | <b>96.0%</b>           |
| Corpus Christi |                       |                                |                        |                       |                            |               |                        |
|                | Jim Wells             | 130                            | 0                      | 10                    | 0                          | 140           |                        |
|                | San Patricio          | 178                            | 1                      | 5                     | 0                          | 184           |                        |
|                | Refugio               | 99                             | 2                      | 6                     | 0                          | 107           |                        |
|                | Nueces                | 298                            | 2                      | 27                    | 1                          | 328           |                        |
|                | Live Oak              | 190                            | 0                      | 12                    | 3                          | 205           |                        |
|                | Kleberg               | 46                             | 2                      | 2                     | 1                          | 51            |                        |
|                | Goliad                | 75                             | 3                      | 3                     | 1                          | 82            |                        |
|                | Bee                   | 103                            | 2                      | 2                     | 2                          | 109           |                        |
|                | Aransas               | 16                             | 1                      | 0                     | 0                          | 17            |                        |
|                | Karnes                | 90                             | 1                      | 11                    | 1                          | 103           |                        |
|                | <b>District Total</b> | <b>1225</b>                    | <b>14</b>              | <b>78</b>             | <b>9</b>                   | <b>1326</b>   | <b>92.4%</b>           |
| Dallas         |                       |                                |                        |                       |                            |               |                        |
|                | Collin                | 326                            | 1                      | 82                    | 3                          | 412           |                        |
|                | Dallas                | 1115                           | 11                     | 418                   | 0                          | 1544          |                        |
|                | Denton                | 363                            | 9                      | 81                    | 1                          | 454           |                        |
|                | Ellis                 | 377                            | 0                      | 80                    | 0                          | 457           |                        |
|                | Kaufman               | 322                            | 3                      | 48                    | 0                          | 373           |                        |
|                | Navarro               | 203                            | 2                      | 30                    | 0                          | 235           |                        |
|                | Rockwall              | 41                             | 0                      | 15                    | 0                          | 56            |                        |
|                | <b>District Total</b> | <b>2747</b>                    | <b>26</b>              | <b>754</b>            | <b>4</b>                   | <b>3531</b>   | <b>77.8%</b>           |
| El Paso        |                       |                                |                        |                       |                            |               |                        |
|                | Hudspeth              | 122                            | 2                      | 6                     | 0                          | 130           |                        |
|                | Jeff Davis            | 132                            | 0                      | 2                     | 0                          | 134           |                        |
|                | Culberson             | 133                            | 0                      | 1                     | 0                          | 134           |                        |

| District   | County                | Number of Bridges by Condition |                        |                       | Total Bridges | Percent Good or Better |                            |
|------------|-----------------------|--------------------------------|------------------------|-----------------------|---------------|------------------------|----------------------------|
|            |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete |               |                        | Sub-Standard for Load Only |
|            | Brewster              | 90                             | 0                      | 1                     | 0             | 91                     |                            |
|            | Presidio              | 70                             | 0                      | 3                     | 0             | 73                     |                            |
|            | El Paso               | 356                            | 4                      | 83                    | 0             | 443                    |                            |
|            | <b>District Total</b> | <b>903</b>                     | <b>6</b>               | <b>96</b>             | <b>0</b>      | <b>1005</b>            | <b>89.9%</b>               |
| Fort Worth |                       |                                |                        |                       |               |                        |                            |
|            | Palo Pinto            | 175                            | 1                      | 3                     | 2             | 181                    |                            |
|            | Wise                  | 118                            | 2                      | 10                    | 0             | 130                    |                            |
|            | Tarrant               | 904                            | 10                     | 164                   | 0             | 1078                   |                            |
|            | Parker                | 147                            | 6                      | 8                     | 1             | 162                    |                            |
|            | Johnson               | 186                            | 5                      | 16                    | 1             | 208                    |                            |
|            | Jack                  | 71                             | 0                      | 3                     | 2             | 76                     |                            |
|            | Hood                  | 54                             | 0                      | 4                     | 0             | 58                     |                            |
|            | Erath                 | 116                            | 1                      | 2                     | 0             | 119                    |                            |
|            | Somervell             | 24                             | 0                      | 2                     | 0             | 26                     |                            |
|            | <b>District Total</b> | <b>1795</b>                    | <b>25</b>              | <b>212</b>            | <b>6</b>      | <b>2038</b>            | <b>88.1%</b>               |
| Houston    |                       |                                |                        |                       |               |                        |                            |
|            | Waller                | 117                            | 0                      | 6                     | 0             | 123                    |                            |
|            | Brazoria              | 278                            | 2                      | 18                    | 0             | 298                    |                            |
|            | Fort Bend             | 243                            | 0                      | 17                    | 0             | 260                    |                            |
|            | Galveston             | 163                            | 2                      | 29                    | 0             | 194                    |                            |
|            | Montgomery            | 250                            | 1                      | 10                    | 0             | 261                    |                            |
|            | Harris                | 1281                           | 6                      | 432                   | 0             | 1719                   |                            |
|            | <b>District Total</b> | <b>2332</b>                    | <b>11</b>              | <b>512</b>            | <b>0</b>      | <b>2855</b>            | <b>81.7%</b>               |
| Laredo     |                       |                                |                        |                       |               |                        |                            |
|            | Zavala                | 65                             | 0                      | 6                     | 0             | 71                     |                            |
|            | Webb                  | 242                            | 0                      | 17                    | 0             | 259                    |                            |
|            | Val Verde             | 76                             | 0                      | 7                     | 0             | 83                     |                            |
|            | Maverick              | 86                             | 0                      | 2                     | 0             | 88                     |                            |
|            | Lasalle               | 109                            | 0                      | 0                     | 0             | 109                    |                            |
|            | Kinney                | 34                             | 0                      | 2                     | 0             | 36                     |                            |
|            | Duval                 | 117                            | 0                      | 0                     | 0             | 117                    |                            |
|            | Dimmit                | 66                             | 0                      | 5                     | 0             | 71                     |                            |
|            | <b>District Total</b> | <b>795</b>                     | <b>0</b>               | <b>39</b>             | <b>0</b>      | <b>834</b>             | <b>95.3%</b>               |
| Lubbock    |                       |                                |                        |                       |               |                        |                            |
|            | Floyd                 | 8                              | 0                      | 2                     | 0             | 10                     |                            |
|            | Hockley               | 3                              | 0                      | 0                     | 0             | 3                      |                            |
|            | Terry                 | 5                              | 0                      | 0                     | 0             | 5                      |                            |
|            | Swisher               | 65                             | 0                      | 1                     | 0             | 66                     |                            |
|            | Parmer                | 21                             | 0                      | 0                     | 0             | 21                     |                            |
|            | Lynn                  | 3                              | 0                      | 2                     | 0             | 5                      |                            |
|            | Lubbock               | 188                            | 0                      | 24                    | 0             | 212                    |                            |
|            | Lamb                  | 11                             | 0                      | 0                     | 0             | 11                     |                            |
|            | Yoakum                | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|            | Hale                  | 41                             | 0                      | 4                     | 0             | 45                     |                            |
|            | Gaines                | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|            | Dawson                | 3                              | 0                      | 0                     | 0             | 3                      |                            |

| District | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|----------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|          |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|          | Crosby                | 12                             | 0                      | 0                     | 0                          | 12            |                        |
|          | Cochran               | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Castro                | 9                              | 0                      | 1                     | 0                          | 10            |                        |
|          | Bailey                | 4                              | 0                      | 0                     | 0                          | 4             |                        |
|          | Garza                 | 47                             | 0                      | 1                     | 0                          | 48            |                        |
|          | <b>District Total</b> | <b>420</b>                     | <b>0</b>               | <b>35</b>             | <b>0</b>                   | <b>455</b>    | <b>92.3%</b>           |
| Lufkin   |                       |                                |                        |                       |                            |               |                        |
|          | San Jacinto           | 49                             | 0                      | 4                     | 0                          | 53            |                        |
|          | Polk                  | 108                            | 1                      | 9                     | 0                          | 118           |                        |
|          | Trinity               | 51                             | 4                      | 2                     | 0                          | 57            |                        |
|          | Shelby                | 94                             | 2                      | 6                     | 0                          | 102           |                        |
|          | Angelina              | 99                             | 0                      | 8                     | 1                          | 108           |                        |
|          | San Augustine         | 67                             | 1                      | 4                     | 0                          | 72            |                        |
|          | Nacogdoches           | 109                            | 1                      | 14                    | 4                          | 128           |                        |
|          | Houston               | 92                             | 0                      | 5                     | 0                          | 97            |                        |
|          | Sabine                | 62                             | 1                      | 0                     | 0                          | 63            |                        |
|          | <b>District Total</b> | <b>731</b>                     | <b>10</b>              | <b>52</b>             | <b>5</b>                   | <b>798</b>    | <b>91.6%</b>           |
| Odessa   |                       |                                |                        |                       |                            |               |                        |
|          | Upton                 | 39                             | 0                      | 0                     | 0                          | 39            |                        |
|          | Ward                  | 52                             | 0                      | 2                     | 0                          | 54            |                        |
|          | Terrell               | 53                             | 0                      | 0                     | 0                          | 53            |                        |
|          | Reeves                | 203                            | 0                      | 5                     | 0                          | 208           |                        |
|          | Pecos                 | 464                            | 1                      | 1                     | 0                          | 466           |                        |
|          | Martin                | 14                             | 0                      | 0                     | 0                          | 14            |                        |
|          | Loving                | 4                              | 0                      | 0                     | 0                          | 4             |                        |
|          | Ector                 | 106                            | 1                      | 6                     | 0                          | 113           |                        |
|          | Crane                 | 18                             | 0                      | 0                     | 0                          | 18            |                        |
|          | Andrews               | 1                              | 0                      | 0                     | 0                          | 1             |                        |
|          | Midland               | 86                             | 0                      | 7                     | 0                          | 93            |                        |
|          | Winkler               | 1                              | 0                      | 0                     | 0                          | 1             |                        |
|          | <b>District Total</b> | <b>1041</b>                    | <b>2</b>               | <b>21</b>             | <b>0</b>                   | <b>1064</b>   | <b>97.8%</b>           |
| Paris    |                       |                                |                        |                       |                            |               |                        |
|          | Franklin              | 50                             | 0                      | 0                     | 0                          | 50            |                        |
|          | Red River             | 108                            | 4                      | 1                     | 6                          | 119           |                        |
|          | Rains                 | 33                             | 1                      | 0                     | 0                          | 34            |                        |
|          | Lamar                 | 152                            | 5                      | 18                    | 2                          | 177           |                        |
|          | Hunt                  | 283                            | 2                      | 18                    | 3                          | 306           |                        |
|          | Grayson               | 228                            | 1                      | 32                    | 0                          | 261           |                        |
|          | Fannin                | 151                            | 0                      | 12                    | 0                          | 163           |                        |
|          | Delta                 | 62                             | 1                      | 4                     | 1                          | 68            |                        |
|          | Hopkins               | 151                            | 10                     | 14                    | 0                          | 175           |                        |
|          | <b>District Total</b> | <b>1218</b>                    | <b>24</b>              | <b>99</b>             | <b>12</b>                  | <b>1353</b>   | <b>90.0%</b>           |
| Pharr    |                       |                                |                        |                       |                            |               |                        |
|          | Willacy               | 54                             | 0                      | 2                     | 0                          | 56            |                        |
|          | Kenedy                | 15                             | 0                      | 0                     | 0                          | 15            |                        |
|          | Zapata                | 33                             | 0                      | 4                     | 0                          | 37            |                        |

| District    | County                | Number of Bridges by Condition |                        |                       | Total Bridges | Percent Good or Better |                            |
|-------------|-----------------------|--------------------------------|------------------------|-----------------------|---------------|------------------------|----------------------------|
|             |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete |               |                        | Sub-Standard for Load Only |
|             | Starr                 | 48                             | 0                      | 2                     | 0             | 50                     |                            |
|             | Hidalgo               | 212                            | 1                      | 21                    | 0             | 234                    |                            |
|             | Jim Hogg              | 27                             | 0                      | 2                     | 0             | 29                     |                            |
|             | Cameron               | 217                            | 0                      | 15                    | 0             | 232                    |                            |
|             | Brooks                | 29                             | 0                      | 0                     | 0             | 29                     |                            |
|             | <b>District Total</b> | <b>635</b>                     | <b>1</b>               | <b>46</b>             | <b>0</b>      | <b>682</b>             | <b>93.1%</b>               |
| San Angelo  |                       |                                |                        |                       |               |                        |                            |
|             | Sterling              | 51                             | 0                      | 1                     | 0             | 52                     |                            |
|             | Coke                  | 81                             | 0                      | 1                     | 0             | 82                     |                            |
|             | Sutton                | 86                             | 0                      | 4                     | 0             | 90                     |                            |
|             | Schleicher            | 28                             | 0                      | 0                     | 0             | 28                     |                            |
|             | Runnels               | 102                            | 0                      | 12                    | 1             | 115                    |                            |
|             | Real                  | 22                             | 0                      | 6                     | 0             | 28                     |                            |
|             | Reagan                | 28                             | 0                      | 0                     | 0             | 28                     |                            |
|             | Kimble                | 138                            | 1                      | 7                     | 0             | 146                    |                            |
|             | Irion                 | 50                             | 0                      | 0                     | 0             | 50                     |                            |
|             | Glasscock             | 18                             | 0                      | 0                     | 0             | 18                     |                            |
|             | Edwards               | 25                             | 0                      | 1                     | 0             | 26                     |                            |
|             | Crockett              | 156                            | 1                      | 2                     | 0             | 159                    |                            |
|             | Concho                | 64                             | 1                      | 1                     | 0             | 66                     |                            |
|             | Menard                | 61                             | 0                      | 0                     | 0             | 61                     |                            |
|             | Tom Green             | 240                            | 0                      | 20                    | 0             | 260                    |                            |
|             | <b>District Total</b> | <b>1150</b>                    | <b>3</b>               | <b>55</b>             | <b>1</b>      | <b>1209</b>            | <b>95.1%</b>               |
| San Antonio |                       |                                |                        |                       |               |                        |                            |
|             | Comal                 | 128                            | 0                      | 12                    | 0             | 140                    |                            |
|             | Wilson                | 86                             | 0                      | 11                    | 0             | 97                     |                            |
|             | Uvalde                | 85                             | 2                      | 7                     | 0             | 94                     |                            |
|             | Medina                | 151                            | 0                      | 10                    | 0             | 161                    |                            |
|             | McMullen              | 53                             | 0                      | 0                     | 0             | 53                     |                            |
|             | Kerr                  | 128                            | 2                      | 12                    | 0             | 142                    |                            |
|             | Kendall               | 69                             | 0                      | 11                    | 0             | 80                     |                            |
|             | Frio                  | 115                            | 0                      | 11                    | 0             | 126                    |                            |
|             | Bexar                 | 1089                           | 1                      | 165                   | 0             | 1255                   |                            |
|             | Bandera               | 45                             | 0                      | 11                    | 0             | 56                     |                            |
|             | Atascosa              | 144                            | 0                      | 7                     | 0             | 151                    |                            |
|             | Guadalupe             | 226                            | 1                      | 9                     | 0             | 236                    |                            |
|             | <b>District Total</b> | <b>2319</b>                    | <b>6</b>               | <b>266</b>            | <b>0</b>      | <b>2591</b>            | <b>89.5%</b>               |
| Tyler       |                       |                                |                        |                       |               |                        |                            |
|             | Cherokee              | 114                            | 0                      | 6                     | 0             | 120                    |                            |
|             | Van Zandt             | 158                            | 0                      | 14                    | 0             | 172                    |                            |
|             | Wood                  | 89                             | 1                      | 14                    | 0             | 104                    |                            |
|             | Smith                 | 203                            | 1                      | 15                    | 1             | 220                    |                            |
|             | Gregg                 | 123                            | 0                      | 14                    | 0             | 137                    |                            |
|             | Anderson              | 107                            | 1                      | 4                     | 0             | 112                    |                            |
|             | Henderson             | 150                            | 3                      | 12                    | 0             | 165                    |                            |
|             | Rusk                  | 158                            | 1                      | 2                     | 0             | 161                    |                            |

| District      | County                 | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|---------------|------------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|               |                        | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|               | <i>District Total</i>  | <b>1102</b>                    | <b>7</b>               | <b>81</b>             | <b>1</b>                   | <b>1191</b>   | <b>92.5%</b>           |
| Waco          |                        |                                |                        |                       |                            |               |                        |
|               | Falls                  | 151                            | 0                      | 8                     | 0                          | 159           |                        |
|               | McLennan               | 359                            | 3                      | 65                    | 1                          | 428           |                        |
|               | Limestone              | 129                            | 0                      | 2                     | 1                          | 132           |                        |
|               | Hamilton               | 74                             | 2                      | 3                     | 2                          | 81            |                        |
|               | Coryell                | 118                            | 0                      | 10                    | 1                          | 129           |                        |
|               | Bosque                 | 100                            | 4                      | 7                     | 1                          | 112           |                        |
|               | Bell                   | 332                            | 0                      | 48                    | 4                          | 384           |                        |
|               | Hill                   | 209                            | 16                     | 12                    | 2                          | 239           |                        |
|               | <i>District Total</i>  | <b>1472</b>                    | <b>25</b>              | <b>155</b>            | <b>12</b>                  | <b>1664</b>   | <b>88.5%</b>           |
| Wichita Falls |                        |                                |                        |                       |                            |               |                        |
|               | Cooke                  | 129                            | 2                      | 8                     | 0                          | 139           |                        |
|               | Wilbarger              | 107                            | 0                      | 7                     | 4                          | 118           |                        |
|               | Wichita                | 271                            | 0                      | 34                    | 0                          | 305           |                        |
|               | Young                  | 83                             | 0                      | 1                     | 0                          | 84            |                        |
|               | Clay                   | 114                            | 1                      | 5                     | 1                          | 121           |                        |
|               | Baylor                 | 44                             | 0                      | 5                     | 0                          | 49            |                        |
|               | Archer                 | 93                             | 0                      | 1                     | 0                          | 94            |                        |
|               | Montague               | 97                             | 0                      | 2                     | 0                          | 99            |                        |
|               | Throckmorton           | 45                             | 0                      | 0                     | 0                          | 45            |                        |
|               | <i>District Total</i>  | <b>983</b>                     | <b>3</b>               | <b>63</b>             | <b>5</b>                   | <b>1054</b>   | <b>93.3%</b>           |
| Yoakum        |                        |                                |                        |                       |                            |               |                        |
|               | Colorado               | 134                            | 0                      | 17                    | 0                          | 151           |                        |
|               | Victoria               | 193                            | 2                      | 6                     | 0                          | 201           |                        |
|               | Matagorda              | 79                             | 1                      | 6                     | 0                          | 86            |                        |
|               | Lavaca                 | 121                            | 0                      | 6                     | 0                          | 127           |                        |
|               | Jackson                | 124                            | 1                      | 0                     | 0                          | 125           |                        |
|               | Gonzales               | 205                            | 0                      | 26                    | 1                          | 232           |                        |
|               | Dewitt                 | 136                            | 0                      | 13                    | 0                          | 149           |                        |
|               | Calhoun                | 74                             | 2                      | 2                     | 0                          | 78            |                        |
|               | Austin                 | 98                             | 1                      | 7                     | 0                          | 106           |                        |
|               | Wharton                | 164                            | 2                      | 9                     | 0                          | 175           |                        |
|               | Fayette                | 214                            | 2                      | 15                    | 0                          | 231           |                        |
|               | <i>District Total</i>  | <b>1542</b>                    | <b>11</b>              | <b>107</b>            | <b>1</b>                   | <b>1661</b>   | <b>92.8%</b>           |
|               | <i>Statewide Total</i> | <b>30477</b>                   | <b>261</b>             | <b>3429</b>           | <b>92</b>                  | <b>34259</b>  | <b>89.0%</b>           |

The total number of "Good or Better" bridges includes 3 on-system bridges identified as unclassified.

**Table B-1.**

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**Appendix C – Condition of Off-System bridges by TxDOT District and County as of September, 2012.**

| District        | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|-----------------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|                 |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
| <b>Abilene</b>  |                       |                                |                        |                       |                            |               |                        |
|                 | Shackelford           | 6                              | 2                      | 1                     | 2                          | 11            |                        |
|                 | Borden                | 3                              | 0                      | 0                     | 0                          | 3             |                        |
|                 | Stonewall             | 11                             | 1                      | 0                     | 5                          | 17            |                        |
|                 | Scurry                | 39                             | 1                      | 0                     | 3                          | 43            |                        |
|                 | Nolan                 | 23                             | 1                      | 2                     | 10                         | 36            |                        |
|                 | Mitchell              | 16                             | 5                      | 3                     | 2                          | 26            |                        |
|                 | Callahan              | 12                             | 5                      | 1                     | 1                          | 19            |                        |
|                 | Jones                 | 41                             | 2                      | 3                     | 4                          | 50            |                        |
|                 | Howard                | 8                              | 0                      | 1                     | 0                          | 9             |                        |
|                 | Haskell               | 11                             | 0                      | 2                     | 0                          | 13            |                        |
|                 | Fisher                | 20                             | 29                     | 15                    | 10                         | 74            |                        |
|                 | Kent                  | 2                              | 1                      | 1                     | 4                          | 8             |                        |
|                 | Taylor                | 67                             | 1                      | 13                    | 4                          | 85            |                        |
|                 | <b>District Total</b> | <b>259</b>                     | <b>48</b>              | <b>42</b>             | <b>45</b>                  | <b>394</b>    | <b>65.7%</b>           |
| <b>Amarillo</b> |                       |                                |                        |                       |                            |               |                        |
|                 | Moore                 | 0                              | 0                      | 0                     | 2                          | 2             |                        |
|                 | Ochiltree             | 7                              | 0                      | 0                     | 1                          | 8             |                        |
|                 | Oldham                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|                 | Potter                | 16                             | 2                      | 2                     | 0                          | 20            |                        |
|                 | Randall               | 5                              | 0                      | 1                     | 0                          | 6             |                        |
|                 | Sherman               | 5                              | 0                      | 0                     | 0                          | 5             |                        |
|                 | Lipscomb              | 3                              | 0                      | 0                     | 0                          | 3             |                        |
|                 | Deaf Smith            | 1                              | 0                      | 1                     | 4                          | 6             |                        |
|                 | Roberts               | 0                              | 1                      | 0                     | 0                          | 1             |                        |
|                 | Hutchinson            | 10                             | 0                      | 0                     | 1                          | 11            |                        |
|                 | Hemphill              | 3                              | 2                      | 0                     | 0                          | 5             |                        |
|                 | Hartley               | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|                 | Gray                  | 14                             | 5                      | 4                     | 1                          | 24            |                        |
|                 | Dallam                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|                 | Carson                | 0                              | 0                      | 2                     | 0                          | 2             |                        |
|                 | Armstrong             | 0                              | 1                      | 0                     | 0                          | 1             |                        |
|                 | Hansford              | 8                              | 0                      | 1                     | 1                          | 10            |                        |
|                 | <b>District Total</b> | <b>72</b>                      | <b>11</b>              | <b>11</b>             | <b>10</b>                  | <b>104</b>    | <b>69.2%</b>           |
| <b>Atlanta</b>  |                       |                                |                        |                       |                            |               |                        |
|                 | Morris                | 9                              | 2                      | 6                     | 4                          | 21            |                        |
|                 | Bowie                 | 38                             | 3                      | 14                    | 0                          | 55            |                        |
|                 | Upshur                | 8                              | 0                      | 0                     | 0                          | 8             |                        |
|                 | Titus                 | 38                             | 3                      | 5                     | 0                          | 46            |                        |
|                 | Panola                | 5                              | 0                      | 11                    | 0                          | 16            |                        |

| District  | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|-----------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|           |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|           | Harrison              | 33                             | 4                      | 5                     | 3                          | 45            |                        |
|           | Cass                  | 10                             | 0                      | 2                     | 0                          | 12            |                        |
|           | Camp                  | 4                              | 0                      | 0                     | 0                          | 4             |                        |
|           | Marion                | 9                              | 2                      | 1                     | 0                          | 12            |                        |
|           | <b>District Total</b> | <b>154</b>                     | <b>14</b>              | <b>44</b>             | <b>7</b>                   | <b>219</b>    | <b>70.3%</b>           |
| Austin    |                       |                                |                        |                       |                            |               |                        |
|           | Mason                 | 1                              | 2                      | 4                     | 4                          | 11            |                        |
|           | Travis                | 519                            | 1                      | 124                   | 3                          | 647           |                        |
|           | Llano                 | 5                              | 2                      | 2                     | 0                          | 9             |                        |
|           | Lee                   | 52                             | 2                      | 19                    | 1                          | 74            |                        |
|           | Hays                  | 40                             | 1                      | 4                     | 0                          | 45            |                        |
|           | Caldwell              | 32                             | 4                      | 7                     | 3                          | 46            |                        |
|           | Burnet                | 22                             | 1                      | 2                     | 1                          | 26            |                        |
|           | Blanco                | 3                              | 0                      | 1                     | 2                          | 6             |                        |
|           | Bastrop               | 75                             | 3                      | 19                    | 3                          | 100           |                        |
|           | Gillespie             | 18                             | 3                      | 13                    | 2                          | 36            |                        |
|           | Williamson            | 428                            | 5                      | 42                    | 7                          | 482           |                        |
|           | <b>District Total</b> | <b>1195</b>                    | <b>24</b>              | <b>237</b>            | <b>26</b>                  | <b>1482</b>   | <b>80.6%</b>           |
| Beaumont  |                       |                                |                        |                       |                            |               |                        |
|           | Jasper                | 30                             | 1                      | 13                    | 0                          | 44            |                        |
|           | Tyler                 | 44                             | 1                      | 8                     | 5                          | 58            |                        |
|           | Orange                | 37                             | 5                      | 16                    | 2                          | 60            |                        |
|           | Newton                | 26                             | 7                      | 3                     | 7                          | 43            |                        |
|           | Jefferson             | 113                            | 3                      | 39                    | 2                          | 157           |                        |
|           | Hardin                | 36                             | 1                      | 2                     | 4                          | 43            |                        |
|           | Chambers              | 11                             | 0                      | 2                     | 3                          | 16            |                        |
|           | Liberty               | 22                             | 5                      | 12                    | 1                          | 40            |                        |
|           | <b>District Total</b> | <b>319</b>                     | <b>23</b>              | <b>95</b>             | <b>24</b>                  | <b>461</b>    | <b>69.2%</b>           |
| Brownwood |                       |                                |                        |                       |                            |               |                        |
|           | McCulloch             | 17                             | 2                      | 4                     | 3                          | 26            |                        |
|           | Lampasas              | 12                             | 0                      | 3                     | 1                          | 16            |                        |
|           | Stephens              | 18                             | 3                      | 7                     | 5                          | 33            |                        |
|           | San Saba              | 12                             | 3                      | 3                     | 2                          | 20            |                        |
|           | Eastland              | 44                             | 5                      | 7                     | 8                          | 64            |                        |
|           | Brown                 | 65                             | 6                      | 14                    | 11                         | 96            |                        |
|           | Comanche              | 62                             | 11                     | 13                    | 12                         | 98            |                        |
|           | Coleman               | 28                             | 1                      | 6                     | 7                          | 42            |                        |
|           | Mills                 | 7                              | 3                      | 2                     | 3                          | 15            |                        |
|           | <b>District Total</b> | <b>265</b>                     | <b>34</b>              | <b>59</b>             | <b>52</b>                  | <b>410</b>    | <b>64.6%</b>           |
| Bryan     |                       |                                |                        |                       |                            |               |                        |
|           | Madison               | 5                              | 7                      | 8                     | 7                          | 27            |                        |
|           | Washington            | 86                             | 7                      | 23                    | 4                          | 120           |                        |
|           | Walker                | 25                             | 2                      | 2                     | 2                          | 31            |                        |
|           | Milam                 | 31                             | 6                      | 16                    | 2                          | 55            |                        |
|           | Leon                  | 17                             | 2                      | 4                     | 7                          | 30            |                        |
|           | Grimes                | 37                             | 6                      | 36                    | 9                          | 88            |                        |

| District              | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|-----------------------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|                       |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|                       | Freestone             | 27                             | 7                      | 10                    | 5                          | 49            |                        |
|                       | Burleson              | 24                             | 6                      | 8                     | 10                         | 48            |                        |
|                       | Brazos                | 113                            | 1                      | 8                     | 1                          | 123           |                        |
|                       | Robertson             | 28                             | 8                      | 4                     | 3                          | 43            |                        |
|                       | <b>District Total</b> | <b>393</b>                     | <b>52</b>              | <b>119</b>            | <b>50</b>                  | <b>614</b>    | <b>64.0%</b>           |
| <b>Childress</b>      |                       |                                |                        |                       |                            |               |                        |
|                       | Briscoe               | 4                              | 0                      | 0                     | 0                          | 4             |                        |
|                       | Hall                  | 22                             | 6                      | 0                     | 1                          | 29            |                        |
|                       | Wheeler               | 10                             | 1                      | 2                     | 5                          | 18            |                        |
|                       | Motley                | 7                              | 0                      | 1                     | 0                          | 8             |                        |
|                       | Knox                  | 4                              | 3                      | 0                     | 0                          | 7             |                        |
|                       | King                  | 4                              | 0                      | 1                     | 0                          | 5             |                        |
|                       | Hardeman              | 15                             | 4                      | 0                     | 4                          | 23            |                        |
|                       | Foard                 | 4                              | 4                      | 1                     | 2                          | 11            |                        |
|                       | Donley                | 8                              | 2                      | 2                     | 1                          | 13            |                        |
|                       | Dickens               | 7                              | 4                      | 1                     | 0                          | 12            |                        |
|                       | Cottle                | 22                             | 1                      | 2                     | 0                          | 25            |                        |
|                       | Childress             | 18                             | 2                      | 1                     | 3                          | 24            |                        |
|                       | Collingsworth         | 16                             | 0                      | 1                     | 2                          | 19            |                        |
|                       | <b>District Total</b> | <b>141</b>                     | <b>27</b>              | <b>12</b>             | <b>18</b>                  | <b>198</b>    | <b>71.2%</b>           |
| <b>Corpus Christi</b> |                       |                                |                        |                       |                            |               |                        |
|                       | Jim Wells             | 24                             | 4                      | 3                     | 2                          | 33            |                        |
|                       | San Patricio          | 42                             | 4                      | 5                     | 1                          | 52            |                        |
|                       | Refugio               | 19                             | 2                      | 5                     | 1                          | 27            |                        |
|                       | Nueces                | 143                            | 5                      | 9                     | 2                          | 159           |                        |
|                       | Live Oak              | 5                              | 6                      | 2                     | 3                          | 16            |                        |
|                       | Kleberg               | 1                              | 1                      | 0                     | 0                          | 2             |                        |
|                       | Goliad                | 35                             | 2                      | 4                     | 2                          | 43            |                        |
|                       | Bee                   | 14                             | 1                      | 7                     | 1                          | 23            |                        |
|                       | Aransas               | 2                              | 0                      | 1                     | 0                          | 3             |                        |
|                       | Karnes                | 32                             | 3                      | 3                     | 0                          | 38            |                        |
|                       | <b>District Total</b> | <b>317</b>                     | <b>28</b>              | <b>39</b>             | <b>12</b>                  | <b>396</b>    | <b>80.1%</b>           |
| <b>Dallas</b>         |                       |                                |                        |                       |                            |               |                        |
|                       | Collin                | 408                            | 1                      | 105                   | 2                          | 516           |                        |
|                       | Dallas                | 856                            | 11                     | 473                   | 12                         | 1352          |                        |
|                       | Denton                | 216                            | 6                      | 48                    | 1                          | 271           |                        |
|                       | Ellis                 | 93                             | 7                      | 58                    | 21                         | 179           |                        |
|                       | Kaufman               | 23                             | 9                      | 13                    | 3                          | 48            |                        |
|                       | Navarro               | 45                             | 10                     | 22                    | 19                         | 96            |                        |
|                       | Rockwall              | 12                             | 0                      | 0                     | 2                          | 14            |                        |
|                       | <b>District Total</b> | <b>1653</b>                    | <b>44</b>              | <b>719</b>            | <b>60</b>                  | <b>2476</b>   | <b>66.8%</b>           |
| <b>El Paso</b>        |                       |                                |                        |                       |                            |               |                        |
|                       | Hudspeth              | 1                              | 0                      | 0                     | 0                          | 1             |                        |
|                       | Jeff Davis            | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|                       | Culberson             | 1                              | 0                      | 0                     | 0                          | 1             |                        |
|                       | Brewster              | 6                              | 0                      | 1                     | 1                          | 8             |                        |

| District          | County                | Number of Bridges by Condition |                        |                       | Total Bridges | Percent Good or Better |                            |
|-------------------|-----------------------|--------------------------------|------------------------|-----------------------|---------------|------------------------|----------------------------|
|                   |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete |               |                        | Sub-Standard for Load Only |
|                   | Presidio              | 0                              | 0                      | 1                     | 0             | 1                      |                            |
|                   | El Paso               | 122                            | 1                      | 28                    | 65            | 216                    |                            |
|                   | <b>District Total</b> | <b>130</b>                     | <b>1</b>               | <b>30</b>             | <b>66</b>     | <b>227</b>             | <b>57.3%</b>               |
| <b>Fort Worth</b> |                       |                                |                        |                       |               |                        |                            |
|                   | Palo Pinto            | 40                             | 5                      | 7                     | 4             | 56                     |                            |
|                   | Wise                  | 86                             | 9                      | 17                    | 12            | 124                    |                            |
|                   | Tarrant               | 663                            | 30                     | 300                   | 13            | 1006                   |                            |
|                   | Parker                | 111                            | 6                      | 19                    | 22            | 158                    |                            |
|                   | Johnson               | 105                            | 1                      | 13                    | 4             | 123                    |                            |
|                   | Jack                  | 35                             | 4                      | 12                    | 11            | 62                     |                            |
|                   | Hood                  | 21                             | 1                      | 0                     | 1             | 23                     |                            |
|                   | Erath                 | 52                             | 3                      | 14                    | 5             | 74                     |                            |
|                   | Somervell             | 2                              | 0                      | 0                     | 0             | 2                      |                            |
|                   | <b>District Total</b> | <b>1115</b>                    | <b>59</b>              | <b>382</b>            | <b>72</b>     | <b>1628</b>            | <b>68.5%</b>               |
| <b>Houston</b>    |                       |                                |                        |                       |               |                        |                            |
|                   | Waller                | 44                             | 11                     | 1                     | 7             | 63                     |                            |
|                   | Brazoria              | 184                            | 28                     | 34                    | 34            | 280                    |                            |
|                   | Fort Bend             | 223                            | 11                     | 90                    | 38            | 362                    |                            |
|                   | Galveston             | 93                             | 7                      | 14                    | 8             | 122                    |                            |
|                   | Montgomery            | 137                            | 11                     | 30                    | 5             | 183                    |                            |
|                   | Harris                | 937                            | 27                     | 881                   | 20            | 1865                   |                            |
|                   | <b>District Total</b> | <b>1618</b>                    | <b>95</b>              | <b>1050</b>           | <b>112</b>    | <b>2875</b>            | <b>56.3%</b>               |
| <b>Laredo</b>     |                       |                                |                        |                       |               |                        |                            |
|                   | Zavala                | 1                              | 1                      | 0                     | 0             | 2                      |                            |
|                   | Webb                  | 50                             | 1                      | 38                    | 0             | 89                     |                            |
|                   | Val Verde             | 6                              | 1                      | 5                     | 0             | 12                     |                            |
|                   | Maverick              | 19                             | 0                      | 3                     | 2             | 24                     |                            |
|                   | Lasalle               | 13                             | 1                      | 2                     | 10            | 26                     |                            |
|                   | Kinney                | 2                              | 0                      | 0                     | 0             | 2                      |                            |
|                   | Duval                 | 2                              | 0                      | 0                     | 0             | 2                      |                            |
|                   | Dimmit                | 2                              | 0                      | 0                     | 0             | 2                      |                            |
|                   | <b>District Total</b> | <b>95</b>                      | <b>4</b>               | <b>48</b>             | <b>12</b>     | <b>159</b>             | <b>59.7%</b>               |
| <b>Lubbock</b>    |                       |                                |                        |                       |               |                        |                            |
|                   | Floyd                 | 0                              | 0                      | 0                     | 1             | 1                      |                            |
|                   | Hockley               | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|                   | Terry                 | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|                   | Swisher               | 2                              | 2                      | 0                     | 0             | 4                      |                            |
|                   | Parmer                | 5                              | 0                      | 0                     | 0             | 5                      |                            |
|                   | Lynn                  | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|                   | Lubbock               | 6                              | 1                      | 1                     | 0             | 8                      |                            |
|                   | Lamb                  | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|                   | Yoakum                | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|                   | Hale                  | 0                              | 1                      | 1                     | 0             | 2                      |                            |
|                   | Gaines                | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|                   | Dawson                | 0                              | 0                      | 0                     | 0             | 0                      |                            |
|                   | Crosby                | 1                              | 2                      | 1                     | 0             | 4                      |                            |

| District | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|----------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|          |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|          | Cochran               | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Castro                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Bailey                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Garza                 | 0                              | 1                      | 0                     | 0                          | 1             |                        |
|          | <b>District Total</b> | <b>14</b>                      | <b>7</b>               | <b>3</b>              | <b>1</b>                   | <b>25</b>     | <b>56.0%</b>           |
| Lufkin   |                       |                                |                        |                       |                            |               |                        |
|          | San Jacinto           | 21                             | 2                      | 0                     | 0                          | 23            |                        |
|          | Polk                  | 25                             | 37                     | 22                    | 10                         | 94            |                        |
|          | Trinity               | 13                             | 2                      | 1                     | 6                          | 22            |                        |
|          | Shelby                | 37                             | 20                     | 13                    | 6                          | 76            |                        |
|          | Angelina              | 39                             | 2                      | 8                     | 7                          | 56            |                        |
|          | San Augustine         | 5                              | 11                     | 1                     | 6                          | 23            |                        |
|          | Nacogdoches           | 79                             | 4                      | 27                    | 4                          | 114           |                        |
|          | Houston               | 38                             | 12                     | 23                    | 21                         | 94            |                        |
|          | Sabine                | 19                             | 7                      | 2                     | 1                          | 29            |                        |
|          | <b>District Total</b> | <b>276</b>                     | <b>97</b>              | <b>97</b>             | <b>61</b>                  | <b>531</b>    | <b>52.0%</b>           |
| Odessa   |                       |                                |                        |                       |                            |               |                        |
|          | Upton                 | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Ward                  | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Terrell               | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Reeves                | 2                              | 1                      | 1                     | 1                          | 5             |                        |
|          | Pecos                 | 2                              | 1                      | 0                     | 0                          | 3             |                        |
|          | Martin                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Loving                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Ector                 | 28                             | 0                      | 0                     | 0                          | 28            |                        |
|          | Crane                 | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Andrews               | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Midland               | 15                             | 0                      | 3                     | 2                          | 20            |                        |
|          | Winkler               | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | <b>District Total</b> | <b>47</b>                      | <b>2</b>               | <b>4</b>              | <b>3</b>                   | <b>56</b>     | <b>83.9%</b>           |
| Paris    |                       |                                |                        |                       |                            |               |                        |
|          | Franklin              | 17                             | 3                      | 3                     | 1                          | 24            |                        |
|          | Red River             | 29                             | 11                     | 4                     | 3                          | 47            |                        |
|          | Rains                 | 10                             | 1                      | 6                     | 1                          | 18            |                        |
|          | Lamar                 | 91                             | 14                     | 19                    | 6                          | 130           |                        |
|          | Hunt                  | 111                            | 19                     | 6                     | 5                          | 141           |                        |
|          | Grayson               | 183                            | 10                     | 49                    | 9                          | 251           |                        |
|          | Fannin                | 62                             | 28                     | 36                    | 21                         | 147           |                        |
|          | Delta                 | 13                             | 9                      | 3                     | 4                          | 29            |                        |
|          | Hopkins               | 39                             | 15                     | 13                    | 4                          | 71            |                        |
|          | <b>District Total</b> | <b>555</b>                     | <b>110</b>             | <b>139</b>            | <b>54</b>                  | <b>858</b>    | <b>64.7%</b>           |
| Pharr    |                       |                                |                        |                       |                            |               |                        |
|          | Willacy               | 52                             | 4                      | 1                     | 1                          | 58            |                        |
|          | Kenedy                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Zapata                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|          | Starr                 | 9                              | 1                      | 3                     | 0                          | 13            |                        |

| District    | County                | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|-------------|-----------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|             |                       | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
|             | Hidalgo               | 120                            | 6                      | 34                    | 7                          | 167           |                        |
|             | Jim Hogg              | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|             | Cameron               | 81                             | 3                      | 11                    | 8                          | 103           |                        |
|             | Brooks                | 4                              | 2                      | 0                     | 1                          | 7             |                        |
|             | <b>District Total</b> | <b>266</b>                     | <b>16</b>              | <b>49</b>             | <b>17</b>                  | <b>348</b>    | <b>76.4%</b>           |
| San Angelo  |                       |                                |                        |                       |                            |               |                        |
|             | Sterling              | 0                              | 2                      | 0                     | 0                          | 2             |                        |
|             | Coke                  | 10                             | 0                      | 3                     | 5                          | 18            |                        |
|             | Sutton                | 1                              | 0                      | 1                     | 0                          | 2             |                        |
|             | Schleicher            | 4                              | 0                      | 0                     | 1                          | 5             |                        |
|             | Runnels               | 15                             | 6                      | 14                    | 9                          | 44            |                        |
|             | Real                  | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|             | Reagan                | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|             | Kimble                | 1                              | 0                      | 1                     | 1                          | 3             |                        |
|             | Irion                 | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|             | Glasscock             | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|             | Edwards               | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|             | Crockett              | 0                              | 0                      | 0                     | 0                          | 0             |                        |
|             | Concho                | 3                              | 1                      | 0                     | 1                          | 5             |                        |
|             | Menard                | 0                              | 2                      | 1                     | 0                          | 3             |                        |
|             | Tom Green             | 30                             | 0                      | 6                     | 3                          | 39            |                        |
|             | <b>District Total</b> | <b>64</b>                      | <b>11</b>              | <b>26</b>             | <b>20</b>                  | <b>121</b>    | <b>52.9%</b>           |
| San Antonio |                       |                                |                        |                       |                            |               |                        |
|             | Comal                 | 25                             | 1                      | 10                    | 0                          | 36            |                        |
|             | Wilson                | 19                             | 0                      | 10                    | 4                          | 33            |                        |
|             | Uvalde                | 7                              | 0                      | 0                     | 0                          | 7             |                        |
|             | Medina                | 35                             | 3                      | 7                     | 1                          | 46            |                        |
|             | McMullen              | 2                              | 0                      | 2                     | 0                          | 4             |                        |
|             | Kerr                  | 13                             | 0                      | 14                    | 0                          | 27            |                        |
|             | Kendall               | 16                             | 3                      | 6                     | 0                          | 25            |                        |
|             | Frio                  | 12                             | 2                      | 2                     | 0                          | 16            |                        |
|             | Bexar                 | 706                            | 5                      | 193                   | 4                          | 908           |                        |
|             | Bandera               | 7                              | 0                      | 4                     | 0                          | 11            |                        |
|             | Atascosa              | 22                             | 1                      | 0                     | 2                          | 25            |                        |
|             | Guadalupe             | 38                             | 0                      | 3                     | 2                          | 43            |                        |
|             | <b>District Total</b> | <b>902</b>                     | <b>15</b>              | <b>251</b>            | <b>13</b>                  | <b>1181</b>   | <b>76.4%</b>           |
| Tyler       |                       |                                |                        |                       |                            |               |                        |
|             | Cherokee              | 42                             | 4                      | 15                    | 11                         | 72            |                        |
|             | Van Zandt             | 38                             | 11                     | 18                    | 8                          | 75            |                        |
|             | Wood                  | 10                             | 1                      | 2                     | 0                          | 13            |                        |
|             | Smith                 | 93                             | 11                     | 14                    | 26                         | 144           |                        |
|             | Gregg                 | 62                             | 2                      | 11                    | 1                          | 76            |                        |
|             | Anderson              | 33                             | 10                     | 12                    | 4                          | 59            |                        |
|             | Henderson             | 13                             | 3                      | 15                    | 1                          | 32            |                        |
|             | Rusk                  | 92                             | 1                      | 9                     | 2                          | 104           |                        |
|             | <b>District Total</b> | <b>383</b>                     | <b>43</b>              | <b>96</b>             | <b>53</b>                  | <b>575</b>    | <b>66.6%</b>           |

| District      | County                 | Number of Bridges by Condition |                        |                       |                            | Total Bridges | Percent Good or Better |
|---------------|------------------------|--------------------------------|------------------------|-----------------------|----------------------------|---------------|------------------------|
|               |                        | Good or Better                 | Structurally Deficient | Functionally Obsolete | Sub-Standard for Load Only |               |                        |
| Waco          |                        |                                |                        |                       |                            |               |                        |
|               | Falls                  | 76                             | 44                     | 16                    | 23                         | 159           |                        |
|               | McLennan               | 178                            | 10                     | 44                    | 22                         | 254           |                        |
|               | Limestone              | 56                             | 39                     | 44                    | 15                         | 154           |                        |
|               | Hamilton               | 22                             | 7                      | 5                     | 5                          | 39            |                        |
|               | Coryell                | 20                             | 2                      | 1                     | 5                          | 28            |                        |
|               | Bosque                 | 24                             | 4                      | 4                     | 2                          | 34            |                        |
|               | Bell                   | 154                            | 6                      | 43                    | 5                          | 208           |                        |
|               | Hill                   | 93                             | 26                     | 17                    | 19                         | 155           |                        |
|               | <b>District Total</b>  | <b>623</b>                     | <b>138</b>             | <b>174</b>            | <b>96</b>                  | <b>1031</b>   | <b>60.4%</b>           |
| Wichita Falls |                        |                                |                        |                       |                            |               |                        |
|               | Cooke                  | 110                            | 4                      | 15                    | 12                         | 141           |                        |
|               | Wilbarger              | 22                             | 3                      | 1                     | 8                          | 34            |                        |
|               | Wichita                | 61                             | 3                      | 20                    | 8                          | 92            |                        |
|               | Young                  | 23                             | 1                      | 3                     | 0                          | 27            |                        |
|               | Clay                   | 7                              | 2                      | 2                     | 0                          | 11            |                        |
|               | Baylor                 | 5                              | 3                      | 0                     | 2                          | 10            |                        |
|               | Archer                 | 19                             | 1                      | 2                     | 7                          | 29            |                        |
|               | Montague               | 82                             | 4                      | 34                    | 8                          | 128           |                        |
|               | Throckmorton           | 7                              | 1                      | 0                     | 0                          | 8             |                        |
|               | <b>District Total</b>  | <b>336</b>                     | <b>22</b>              | <b>77</b>             | <b>45</b>                  | <b>480</b>    | <b>70.0%</b>           |
| Yoakum        |                        |                                |                        |                       |                            |               |                        |
|               | Colorado               | 80                             | 3                      | 7                     | 5                          | 95            |                        |
|               | Victoria               | 79                             | 5                      | 32                    | 6                          | 122           |                        |
|               | Matagorda              | 80                             | 7                      | 4                     | 9                          | 100           |                        |
|               | Lavaca                 | 63                             | 9                      | 58                    | 5                          | 135           |                        |
|               | Jackson                | 25                             | 8                      | 11                    | 2                          | 46            |                        |
|               | Gonzales               | 30                             | 16                     | 8                     | 3                          | 57            |                        |
|               | Dewitt                 | 80                             | 7                      | 20                    | 8                          | 115           |                        |
|               | Calhoun                | 14                             | 6                      | 3                     | 0                          | 23            |                        |
|               | Austin                 | 80                             | 10                     | 8                     | 3                          | 101           |                        |
|               | Wharton                | 111                            | 30                     | 10                    | 39                         | 190           |                        |
|               | Fayette                | 53                             | 5                      | 60                    | 17                         | 135           |                        |
|               | <b>District Total</b>  | <b>695</b>                     | <b>106</b>             | <b>221</b>            | <b>97</b>                  | <b>1119</b>   | <b>62.1%</b>           |
|               | <b>Statewide Total</b> | <b>11887</b>                   | <b>1031</b>            | <b>4024</b>           | <b>1026</b>                | <b>17968</b>  | <b>66.2%</b>           |

The total number of "Good or Better" bridges includes 2 off-system bridges identified as unclassified.

**Table C-1.**

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Texas Department of Transportation  
Bridge Division